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NEWS 2	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS 3	NOV 26	MARPAT enhanced with FSORT command
NEWS 4	NOV 26	CHEMSAFE now available on STN Easy
NEWS 5	NOV 26	Two new SET commands increase convenience of STN searching
NEWS 6	DEC 01	ChemPort single article sales feature unavailable
NEWS 7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS 8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS 9	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS 11	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS 14	FEB 10	COMPENDEX reloaded and enhanced
NEWS 15	FEB 11	WTEXTILES reloaded and enhanced
NEWS 16	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS 17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS 22	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS 23	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS 24	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS 25	MAR 11	ESBIOBASE reloaded and enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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 NEWS IPC8     For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 23:01:24 ON 15 MAR 2009

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.22       0.22

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=>
Uploading C:\Program Files\Stnexp\Queries\10563471.str

L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR

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Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 23:02:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       54 TO ITERATE

100.0% PROCESSED       54 ITERATIONS                                6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          640 TO     1520
PROJECTED ANSWERS:               6 TO      266
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L2            6 SEA SSS SAM L1

=> s l1 full
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FULL SCREEN SEARCH COMPLETED -      970 TO ITERATE

100.0% PROCESSED      970 ITERATIONS                             172 ANSWERS
SEARCH TIME: 00.00.01

L3          172 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                  185.88     186.10

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FILE COVERS 1907 - 15 Mar 2009  VOL 150 ISS 12
FILE LAST UPDATED: 13 Mar 2009  (20090313/ED)

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=> s l3
L4        1498 L3

=> file reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.50     186.60

FILE 'REGISTRY' ENTERED AT 23:03:30 ON 15 MAR 2009
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REGISTRY includes numerically searchable data for experimental and
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predicted properties as well as tags indicating availability of
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http://www.cas.org/support/stngen/stndoc/properties.html

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Uploading C:\Program Files\Stnexp\Queries\10563471excludedcompound.str

L5      STRUCTURE UPLOADED

=> s l5
SAMPLE SEARCH INITIATED 23:05:00 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       54 TO ITERATE

100.0% PROCESSED       54 ITERATIONS                              3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          640 TO     1520
PROJECTED ANSWERS:               3 TO      163

L6            3 SEA SSS SAM L5

=> s l5 full
FULL SEARCH INITIATED 23:05:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      970 TO ITERATE

100.0% PROCESSED      970 ITERATIONS                             68 ANSWERS
SEARCH TIME: 00.00.01

L7           68 SEA SSS FUL L5

=> d his

     (FILE 'HOME' ENTERED AT 23:01:24 ON 15 MAR 2009)

     FILE 'REGISTRY' ENTERED AT 23:02:04 ON 15 MAR 2009
L1              STRUCTURE UPLOADED
L2            6 S L1
L3          172 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 23:02:41 ON 15 MAR 2009
L4         1498 S L3

     FILE 'REGISTRY' ENTERED AT 23:03:30 ON 15 MAR 2009
L5              STRUCTURE UPLOADED
L6            3 S L5
L7           68 S L5 FULL

=> s l3 not l7
L8         104 L3 NOT L7

=> file caplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 187.32     373.92

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=> s l8
L9   79 L8

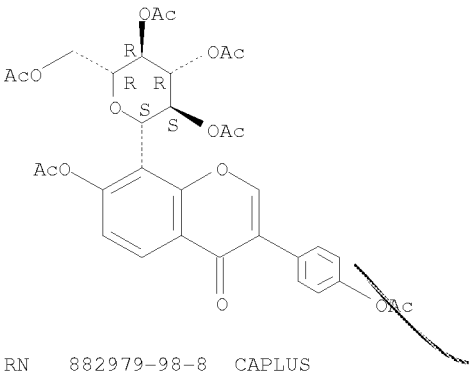
=> d bib abs hitstr 1-9 l9

L9   ANSWER 1 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN   2008:1377173 CAPLUS
DN   150:10839
TI   Novel medical application of puerarin and its derivatives as selective COX-2 inhibitor
IN   Yang, Dajian; Zhong, Guoyue; Xu, Jiahong; Zhang, Yi; Li, Henghua; Huang, Xiaoping
PA   Chongqing Academy of Chinese Materia Medica, Peop. Rep. China
SO   Faming Zhuanli Shenqing Gongkai Shuomingshu, 10pp.
     CODEN: CNXXEV
DT   Patent
LA   Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 101301303	A	20081112	CN 2008-10069880	20080625
PRAI CN 2008-10069880		20080625		

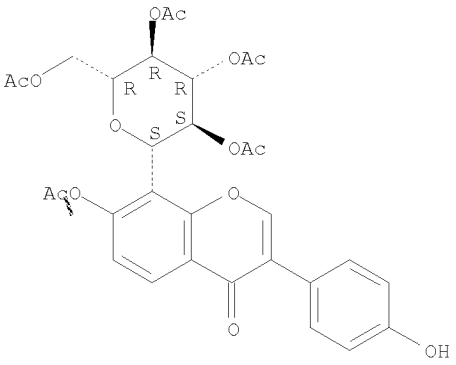
AB   The invention relates to the medical application of puerarin and its derivs. as selective COX-2 inhibitor for preventing and treating osteoarthritis, rheumatic and rheumatoid arthritis, gouty arthritis, hepatitis, conjunctivitis, myocarditis, tumor- and diabetes-induced secondary inflammation, influenza, and trauma-associated pain.
IT   2889-07-8P 882979-98-8P
     RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
        (novel medical application of puerarin and its derivs. as selective COX-2 inhibitor)
RN   2889-07-8 CAPLUS
CN   4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



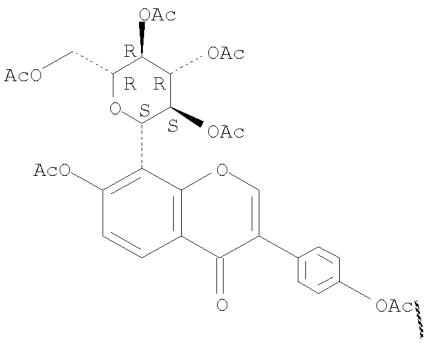
RN   882979-98-8 CAPLUS
CN   4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-(4-hydroxyphenyl)-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:455298 CAPLUS
DN 149:216373
TI Effect of acetylpuerarin on apoptosis and apoptosis-regulating genes induced by angiotensin II in vascular endothelial cells
AU Feng, Yueqiu; Wang, Shumei; Zhang, Xiumei
CS Department of Epidemiology, School of Public Health, Shandong University, Jinan, Shandong Province, 250012, Peop. Rep. China
SO Zhongguo Shenghua Yaowu Zazhi (2007), 28(1), 11-14
CODEN: ZSYZFP; ISSN: 1005-1678
PB Zhongguo Shenghua Yaowu Zazhi Bianjibu
DT Journal
LA Chinese
AB The effect of angiotensin II in different concns. and at different action time on apoptosis ratio and the expression of Fas, Bcl-2 in vascular endothelial cells was investigated, and the effect of acetylpuerarin on apoptosis was revealed. Flow cytometer was used to measure the apoptosis ratio and the expression of Fas, Bcl-2 induced by angiotensin II in different concns. and at different action time of acetylpuerarin. Apoptosis ratio and the expression of Fas, Bcl-2 were induced and increased by angiotensin II with the increase of concns. and action time. Acetylpuerarin had some effect on apoptosis ratio and the expression of Fas, Bcl-2, which were induced by angiotensin II. Apoptosis ratio and the expression of Fas, Bcl-2 were induced and increased by angiotensin II with the increase of the concns. and the different action time. Acetylpuerarin reduces the apoptosis ratio and the expression of Fas and Bcl-2 in vascular endothelial cells.
IT 2889-07-8
RL: PAC (Pharmacological activity); BIOL (Biological study)
(effect of acetylpuerarin on apoptosis and apoptosis-regulating genes induced by angiotensin II in vascular endothelial cells)
RN 2889-07-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.

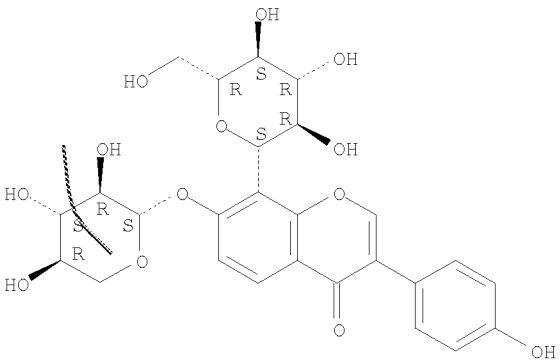


L9 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:397912 CAPLUS
DN 148:456492
TI Compound effervescent formulation containing Radix Puerariae extract for preventing and treating osteoporosis, cardiovascular diseases and climacteric syndrome
IN Zhao, Hongyi; Xu, Pinghui
PA Zhengzhou Biocaro Pharmaceutical Science and Technology Co., Ltd., Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 101147754	A	20080326	CN 2006-10107067	20060919
PRAI CN 2006-10107067		20060919		

AB The title formulation can be tablet or granule containing Radix Puerariae extract (daidzein, soybean glucoside, puerarin and puerarin-7-xyloside), physiol. active substances (vitamin, amino acid, mineral element and/or L-carnitine), and medical adjuvant. The tablet or granule may be used as medicine for preventing and treating osteoporosis, cardiovascular diseases and climacteric syndrome, and as health food for delaying aging, plumping breasts, nursing ovaries, improving face luster, and expelling macula for adult women.
IT 303114-83-2
RL: COS (Cosmetic use); FFD (Food or feed use); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compound effervescent formulation containing Radix Puerariae extract for preventing and treating osteoporosis, cardiovascular diseases and climacteric syndrome)
RN 303114-83-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-7-(β-D-xylopyranosyloxy)- (CA INDEX NAME)

Absolute stereochemistry.



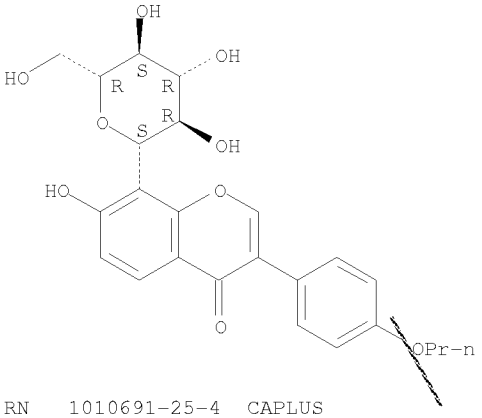
L9 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:171637 CAPLUS
DN 148:331259
TI Puerarin as an antioxidant fluorescence probe
AU Tian, Yu-Xi; Han, Rui-Min; Wang, Peng; Wu, Yi-Shi; Zhang, Jian-Ping; Skibsted, Leif H.
CS Beijing National Laboratory for Molecular Science (BNLMS), State Key Laboratory for Structural Chemistry of Unstable and Stable Species, Institute of Chemistry, Chinese Academy of Sciences, Beijing, 100080, Peop. Rep. China
SO Chemical Physics Letters (2008), 452(4-6), 253-258
CODEN: CHPLBC; ISSN: 0009-2614
PB Elsevier B.V.
DT Journal
LA English

AB Diphenolic isoflavonoid puerarin fluoresces in aqueous solution with maximal intensity at pH 8.5 (Φfl = 0.042, τfl = 1.91 ns). For acidic solns., weak fluorescence is attributed to fluorescent 7-monophenolate formed via excited-state deprotonation of neutral puerarin. For pH > 8.5, fluorescence decreases monotonically with an unchanged lifetime, suggesting that excited-state acidity of 4'-hydroxyl remains similar to the ground-state one, and that the diphenolate is non-fluorescent. The crucial role of A-ring 7-phenolate for fluorescence of puerarin is substantiated by absence (presence) of fluorescence for the 7-propylpuerarin (4'-propylpuerarin). Puerarin and its derivs. with the unusual properties may be explored to be antioxidant fluorescence probes.

IT 933984-63-5, 4'-O-Propylpuerarin 1010691-25-4, Puerarin monoanion 1010691-26-5, Puerarin dianion 1010691-27-6, 4'-O-Propylpuerarin monoanion
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(puerarin as an antioxidant fluorescence probe)

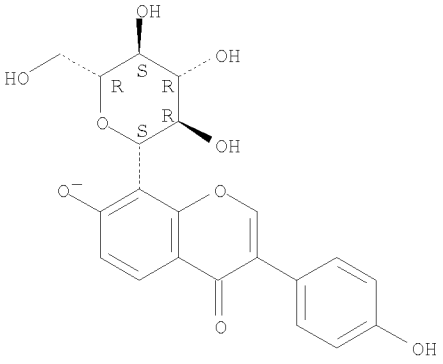
RN 933984-63-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-propoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



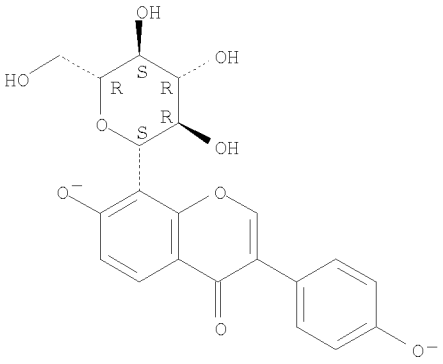
RN 1010691-25-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-hydroxyphenyl)-, ion(1-) (CA INDEX NAME)

Absolute stereochemistry.



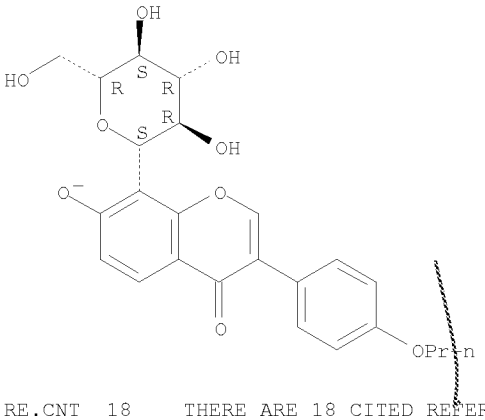
RN 1010691-26-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-hydroxyphenyl)-, ion(2-) (CA INDEX NAME)

Absolute stereochemistry.



RN 1010691-27-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-propoxyphenyl)-, ion(1-) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

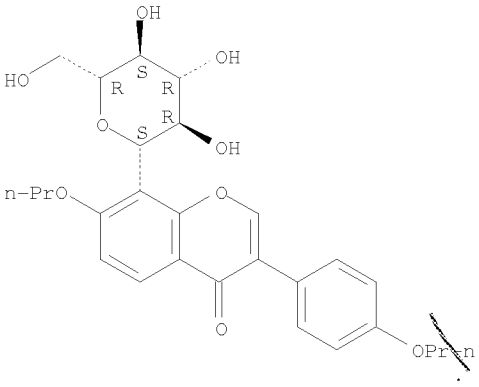
L9 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:118631 CAPLUS
DN 148:379808
TI Radical Dynamics of Puerarin as Revealed by Laser Flash Photolysis and Spin Density Analysis
AU Tian, Yu-Xi; Han, Rui-Min; Fu, Li-Min; Zhang, Jian-Ping; Skibsted, Leif H.
CS Beijing National Laboratory for Molecular Science (BNLMS), State Key Laboratory for Structural Chemistry of Unstable and Stable Species, Institute of Chemistry, Chinese Academy of Sciences, Beijing, 100080, Peop. Rep. China
SO Journal of Physical Chemistry B (2008), 112(7), 2273-2280
CODEN: JPCBFK; ISSN: 1520-6106
PB American Chemical Society
DT Journal
LA English
AB Puerarin, a C-glycoside of daidzein, forms upon direct photoexcitation in acetonitrile an excited-state with a lifetime of 4.2 μs assigned by oxygen quenching and sensitized formation of triplet zeaxanthin as a triplet and phenoxyl radicals of ms lifetime insensitive to oxygen and with spin d. delocalized over the ACB isoflavonoid ring system, [ACB]•, as shown by laser flash photolysis and theor. spin d. calcns. Photoexcitation of A-ring 7-phenolate puerarin yields a [AC]• radical, which converts into the [ACB]• radical with a rate constant of 3.6 + 105 s-1 in 5% methanolic acetonitrile in a process triggered by B-ring deprotonation (4'-phenol). For the 7-phenolate with the 4'-phenol derivatized to yield a Pr anisole, no rearrangement of the initially formed [AC]• radical was observed With the A-ring phenol derivatized, the 7-propyl-4'-phenolate forms a radical with spin d. delocalized over

the CB ring system, [CB]•, together with a minor fraction of [ACB]• due to Pr radical dissocns. confirmed by BDE-calcns. Dianionic puerarin forms initially the [ACB]• radical, which is converted into the [CB]• radical in a slower process (1.6 + 104 s-1) assigned to 7-methylation. The radical dynamics is discussed in relation to puerarin/carotenoid antioxidant synergism at water/lipid interphases.

IT 623900-91-4 933984-62-4 933984-63-5
RL: PRP (Properties)
(radical dynamics of puerarin as revealed by laser flash photolysis and spin d. anal.)

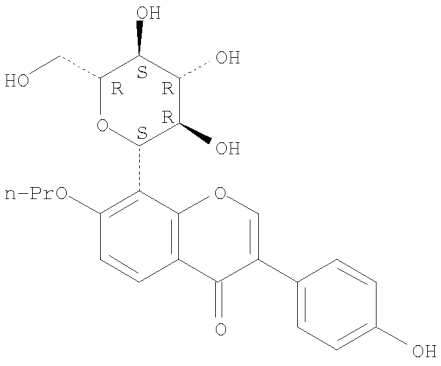
RN 623900-91-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-propoxy-3-(4-propoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



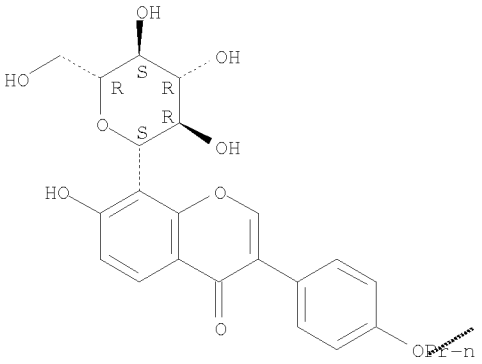
RN 933984-62-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-7-propoxy- (CA INDEX NAME)

Absolute stereochemistry.



RN 933984-63-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-propoxyphenyl)- (CA INDEX NAME)

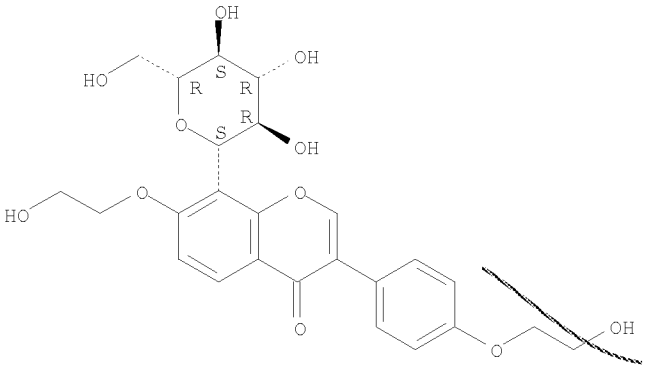
Absolute stereochemistry.



RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

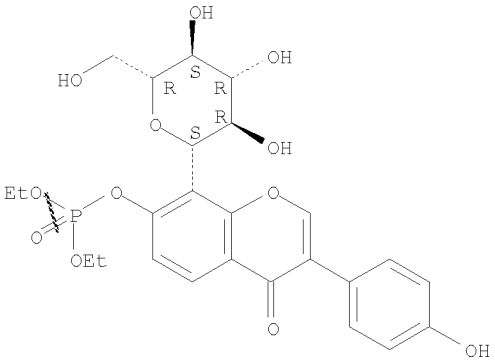
L9 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:1486576 CAPLUS
DN 148:322745
TI Reducing the levels of ET-1 and IL-6 in ischemia-reperfusion injury rats with hydroxyethylpuerarin
AU Wang, Ziying; Wei, Xinbing; Zhang, Bin; Sun, Ru; Sun, Xia; Zhong, Ying; Zuo, Chunxu; Zhang, Xiumei
CS School of Medicine, Shandong University, Jinan, Shandong Province, 250012, Peop. Rep. China
SO Zhongguo Shenghua Yaowu Zazhi (2006), 27(5), 280-282
CODEN: ZSYZFP; ISSN: 1005-1678
PB Zhongguo Shenghua Yaowu Zazhi Bianjibu
DT Journal
LA Chinese
AB The effects of hydroxyethylpuerarin on the levels of endothelin-1 (ET-1) and interleukin 6 (IL-6) in focal brain ischemia-reperfusion injury rats were investigated. Rats were divided into 6 groups randomly: sham-operate group, ischemia-reperfusion group, hydroxyethylpuerarin 15 mg/kg, 30 mg/kg, 60 m/kg groups and nimodipine 0.2 mg/kg group. Rats were prepared with a model of focal brain ischemic injury by middle cerebral artery occlusion (MCAO), and then recovered perfusion by pulling out the suture after one hour. Each animal received drugs twice a day. Forty-eight hours after ischemia followed by 48 h reperfusion, the ET-1 and IL- 6 levels in both blood and brain tissues were significantly increased. Compared with ischemia-reperfusion group, these levels were significantly decreased in all hydroxyethylpuerarin-treated groups. Hydroxyethylpuerarin could protect neuronal injury induced by focal brain ischemia-reperfusion, probably through decreasing the synthesis and release of ET-1 or inflammatory reaction induced by some cytokines, such as IL-6.
IT 240131-05-9
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(reducing the levels of ET-1 and IL-6 in ischemia-reperfusion injury rats with hydroxyethylpuerarin)
RN 240131-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



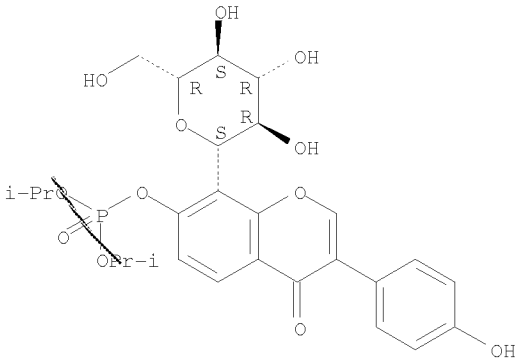
L9 ANSWER 7 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:1422609 CAPLUS
DN 148:321805
TI Study on the interaction of bovine serum albumin with puerarin and its derivatives
AU Qu, Ling-Bo; Wang, Ling; Chen, Xiao-Lan; Yuan, Jin-Wei; Yang, Ran; Li, Ping
CS Department of Chemistry, Anyang Normal College, Anyang, 455002, Peop. Rep. China
SO Huaxue Xuebao (2007), 65(21), 2417-2422
CODEN: HHHPA4; ISSN: 0567-7351
PB Huaxue Xuebao Bianjibu
DT Journal
LA Chinese
AB In the paper, two new phosphorylated isoflavones of puerarin were successfully obtained by a modified Atheron-Todd reaction. Further, the interactions of bovine serum albumin (BSA) and puerarin or its phosphorylated products were studied under physiol. pH by fluorescence spectroscopy. The results showed that puerarin and its phosphorylated products all could form a non-covalent complex with BSA, while the interactions of the phosphorylated isoflavones with BSA were weaker than puerarin. The quenching mechanisms of them with BSA were suggested as a static quenching process, and the binding force was mainly a hydrophobic force. The distances between BSA and puerarin and its phosphorylated isoflavones were less than 7 nm according to the theory of the Forster energy transference. The relationship between the mol. structures of these compds. and the binding ability of them with BSA was preliminarily discussed, and the quenching consts. in the presence of various metal ions were also explored.
IT 913627-26-6P 1010820-83-3P
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(interaction of bovine serum albumin with puerarin and its derivs.)
RN 913627-26-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-[(diethoxyphosphinyl)oxy]-8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



RN 1010820-83-3 CAPLUS
CN Phosphoric acid, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl bis(1-methylethyl) ester (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 8 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:1382104 CAPLUS
DN 148:206305
TI Neuroprotective effects of hydroxyethylpuerarin against focal cerebral ischemia-reperfusion in rats
AU Wang, Zi-Ying; Wei, Xin-Bing; Chen, Lin; Liu, Ping; Wang, Li-Xiang; Zhang, Bin; Sun, Xia; Zhang, Xiu-Mei
CS Institute of Pharmacology, School of Medicine, Shandong University, Jinan, Shandong, 250012, Peop. Rep. China
SO Chinese Journal of Physiology (Taipei, Taiwan) (2007), 50(5), 211-216
CODEN: CJPHDG; ISSN: 0304-4920
PB Chinese Physiological Society
DT Journal
LA English
AB Our present study was performed to investigate whether hydroxyethylpuerarin (HEP) has a neuroprotective effect on brain injury after focal cerebral ischemia/reperfusion by middle cerebral artery occlusion (MCAO) in adult male Wistar rats. Animals were subjected to one hour of middle cerebral artery occlusion and 48 h of reperfusion with the pretreatment of drugs (HEP 15, 30, 60 mg/kg or nimodipine 0.4 mg/kg i.v.) or vehicle. The behavioral tests were used to evaluate the damage to central nervous system. The percentage of brain infarct area was assessed in the brain slices stained with 2% solution of 2, 3, 5-triphenyl tetrazolium chloride (TTC). The pathol. histol. changes were observed by H&E staining and the occurrence of apoptosis was determined by flow cytometry. The results showed that pretreatment with HEP at doses of 15, 30, 60 mg/kg exhibited significant neuroprotective effects on rats against focal cerebral ischemia-reperfusion injury by markedly decreasing neurol. deficit scores and the percentage of infarct area, reducing necrosis and apoptosis of neurons. All these findings suggest that HEP might provide

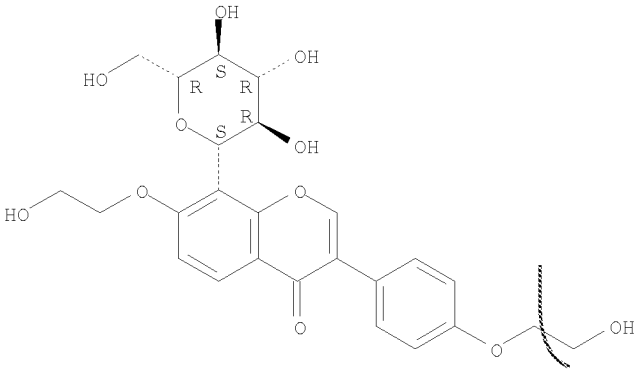
neuroprotection against focal cerebral ischemia/reperfusion injury probably through its antioxidant and anti-inflammatory property.

IT 240131-05-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hydroxyethylpuerarin exhibited neuroprotective effects by decreasing neurol. deficit score, infarct area, necrosis and apoptosis in cortex and hippocampus of rat with cerebral ischemia-reperfusion injury)

RN 240131-05-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 9 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2007:1369736 CAPLUS

DN 148:134985

TI Disposition of flavonoids via enteric recycling: enzyme stability affects characterization of prunetin glucuronidation across species, organs, and UGT isoforms

AU Joseph, Tiby B.; Wang, Stephen W. J.; Liu, Xing; Kulkarni, Kaustubh H.; Wang, Jingrong; Xu, Haiyan; Hu, Ming

CS Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston, Houston, TX, 77030, USA

SO Molecular Pharmaceutics (2007), 4(6), 883-894
CODEN: MPOHBP; ISSN: 1543-8384

PB American Chemical Society

DT Journal

LA English

AB The authors characterized the in vitro glucuronidation of prunetin, a prodrug of genistein that is a highly active cancer prevention agent. Metabolism studies were conducted using expressed human UGT isoforms and microsomes/S9 fractions prepared from intestine and liver of rodents and humans. The results indicated that human intestinal microsomes were more efficient than liver microsomes in glucuronidating prunetin, but rates of metabolism were dependent on time of incubation at 37°. Human liver and intestinal microsomes mainly produced metabolite 1 (prunetin-5-O-glucuronide) and metabolite 2 (prunetin-4'-O-glucuronide), resp. Using 12 human UGT isoforms, the authors showed that UGT1A7, UGT1A8, and UGT1A9 were mainly responsible for the formation of metabolite 1, whereas UGT1A1, UGT1A8, and UGT1A10 were mainly responsible for the formation of metabolite 2. This isoform-specific metabolism was consistent with earlier results obtained using human liver and intestinal microsomes, as the former (liver) is UGT1A9-rich whereas the latter is UGT1A10-rich. Surprisingly, the authors found that the thermostability of the microsomes was isoform- and organ-dependent. For example, human liver microsomal UGT activities were much more heat-stable (37°) than intestinal microsomal UGT activities, consistent with the finding that human UGT1A9 is much more thermostable than human UGT1A10 and UGT1A8. The organ-specific thermostability profiles were also evident in rat microsomes and mouse S9 fractions, even though human intestinal glucuronidation of prunetin differs significantly from rodent intestinal

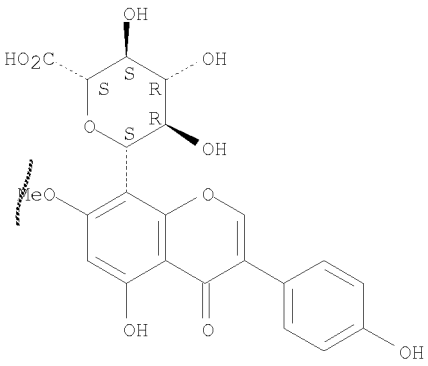
glucuronidation. In conclusion, prunetin glucuronidation is species-, organ-, and UGT-isoform-dependent, all of which may be impacted by the thermostability of specific UGT isoforms involved in the metabolism

IT 1001078-71-2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(disposition of flavonoids via enteric recycling and characterization of prunetin glucuronidation across species, organs, and UGT isoforms)

RN 1001078-71-2 CAPLUS

CN L-Gulonic acid, 2,6-anhydro-6-C-[5-hydroxy-3-(4-hydroxyphenyl)-7-methoxy-4-oxo-4H-1-benzopyran-8-yl]-, (6S)- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d bib abs hitstr 10-79 l9

L9 ANSWER 10 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2007:1156770 CAPLUS

DN 148:68979

TI Effect of hydroxyethylpuerarin on β-adrenergic receptor

AU Pan, Yan; Xu, Hongyan; Zhang, Xiumei

CS School of Medicine, Shandong University, Jinan, Shandong Province, 250012, Peop. Rep. China

SO Zhongguo Shenghua Yaowu Zazhi (2006), 27(3), 145-147
CODEN: ZSYZFP; ISSN: 1005-1678

PB Zhongguo Shenghua Yaowu Zazhi Bianjibu

DT Journal

LA Chinese

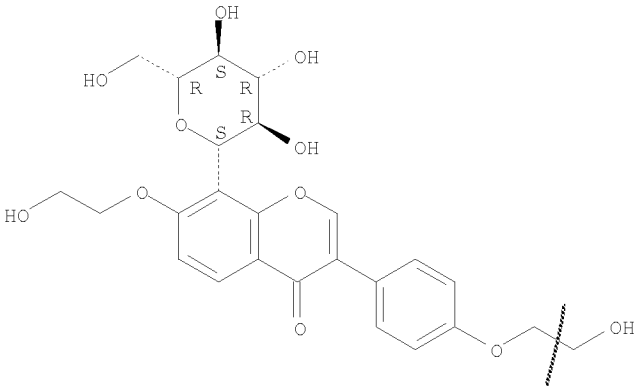
AB Hydroxyethylpuerarin (compound N-2035) is modified in structure from puerarin which is extracted from Chinese traditional medicinal plant, R. Puerariae. This study ws to investigate effect of hydroxyethylpuerarin on adrenergic receptors. The models of isolated rabbit aortic strips and isolated hearts were used to investigate the effect of hydroxyethylpuerarin on α and β-adrenoceptors. Hydroxyethylpuerarin decreased the ranges of heart-tension curves and made the frequency slow. The effects were similar to propranolol. Hydroxyethylpuerarin could not obviously inhibit the contraction of the aortic strips induced by noradrenaline. Hydroxyethylpuerarin can block β-adrenoceptor on myocardium but has no obvious effect on α-adrenoceptor on vessels.

IT 240131-05-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effect of hydroxyethylpuerarin on β-adrenergic receptor)

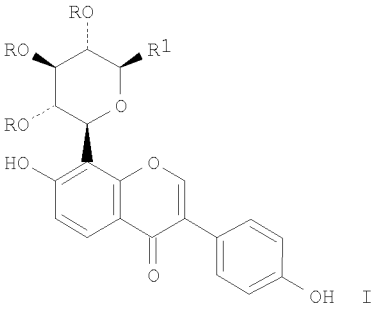
RN 240131-05-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



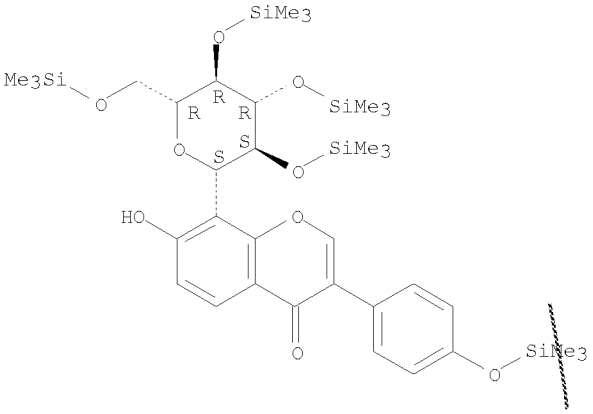
L9 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:1069253 CAPLUS
DN 149:10189
TI Synthesis of tritium-labeled puerarin - a potential antidipsotropic agent
AU Lee, D. Y. W.; Ji, X. S.; Zhang, X.
CS Department of Bio-Organic and Natural Products, Mclean Hospital, Harvard Medical School, Belmont, MA, 02478, USA
SO Journal of Labelled Compounds and Radiopharmaceuticals (2007), 50(8), 702-705
CODEN: JLCRD4; ISSN: 0362-4803
PB John Wiley & Sons Ltd.
DT Journal
LA English
GI



I

AB Puerarin (8-β-D-Glucopyranosyl-4'-7-dihydroxyisoflavone, NPI-031G) is the major isoflavone C-glycoside isolated from Pueraria lobata, a traditional Chinese medicine widely used for the treatment of alc. intoxication. In order to understand the mode of action of puerarin in the reward pathway of the central nervous system and to study its bioavailability and pharmacokinetics, we developed a synthetic route for the preparation of tritium-labeled puerarin. The key intermediate I (R = TMS, R1 = CH2OH) was obtained by trimethylsilyl protection of all hydroxyl groups followed by selective deprotection. The corresponding aldehyde I (R = TMS, R1 = CHO) was obtained through the subsequent oxidation of the primary alc. Standard NaB[3H]4 reduction and hydrolysis produced the tritium-labeled puerarin I [R = TMS, R1 = CH(3H)OH].
IT 1029605-66-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of tritium-labeled puerarin as potential antidipsotropic agent)
RN 1029605-66-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-hydroxy-8-[2,3,4,6-tetrakis-O-(trimethylsilyl)-β-D-glucopyranosyl]-3-[4-[(trimethylsilyl)oxy]phenyl]- (CA INDEX NAME)

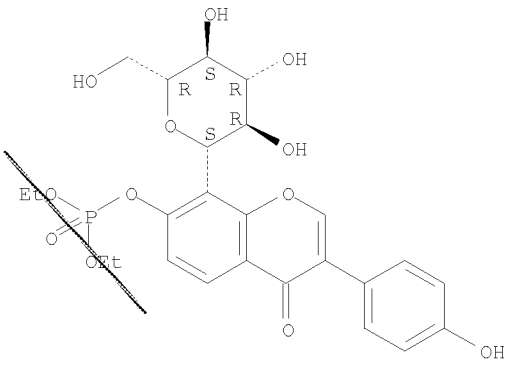
Absolute stereochemistry.



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

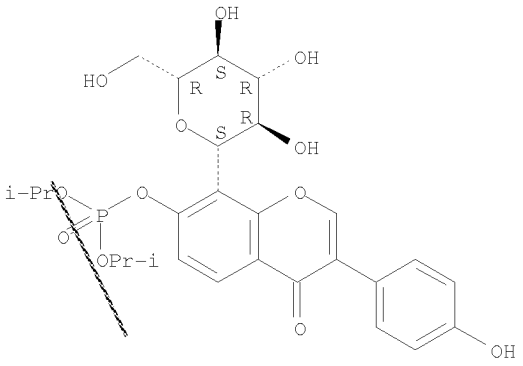
L9 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:962613 CAPLUS
DN 149:32477
TI Synthesis of a novel type of phosphates of puerarin
AU Chen, Xiao-Lan; Qu, Ling-Bo; Yuan, Jin-Wei; Zhao, Yu-Fen
CS Department of Chemistry, Key Laboratory of Chemical Biology, Zhengzhou University, Zhengzhou, 450052, Peop. Rep. China
SO Journal of the Chinese Chemical Society (Taipei, Taiwan) (2007), 54(3), 583-585
CODEN: JCCTAC; ISSN: 0009-4536
PB Chinese Chemical Society
DT Journal
LA English
OS CASREACT 149:32477
AB A novel type of phosphated puerarin derivs. were synthesized through a simplified Atheron-Todd reaction for the first time. The structure of these compds. were elucidated by IR, ESI-MS and NMR. Moreover, the reason the dialkylphophite reagent had different chemselectivities toward different hydroxys on the puerarin was discussed.
IT 913627-26-6P 1010820-83-3P 1031330-85-4P
1031330-87-6P 1031330-89-8P 1031330-93-4P
1031330-95-6P 1031330-97-8P 1031331-00-6P
1031331-02-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of novel type of phosphates of puerarin)
RN 913627-26-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-[(diethoxyphosphinyl)oxy]-8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



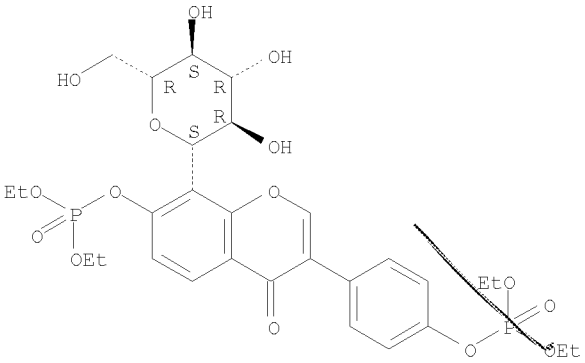
RN 1010820-83-3 CAPLUS
CN Phosphoric acid, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl bis(1-methylethyl) ester (CA INDEX NAME)

Absolute stereochemistry.



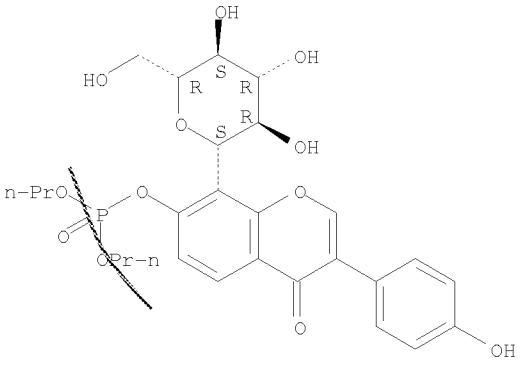
RN 1031330-85-4 CAPLUS
CN Phosphoric acid, 4-[7-[(diethoxyphosphinyl)oxy]-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-3-yl]phenyl diethyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1031330-87-6 CAPLUS
CN Phosphoric acid, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl dipropyl ester (CA INDEX NAME)

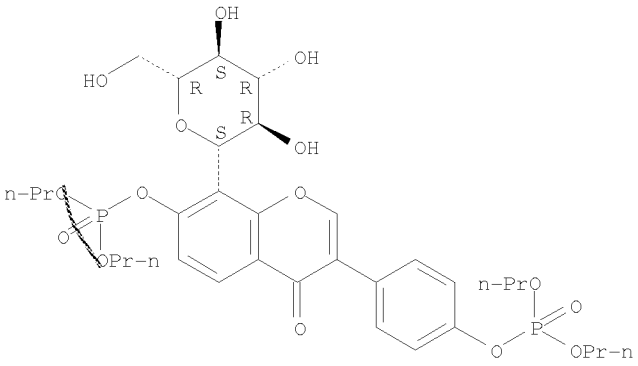
Absolute stereochemistry.



RN 1031330-89-8 CAPLUS

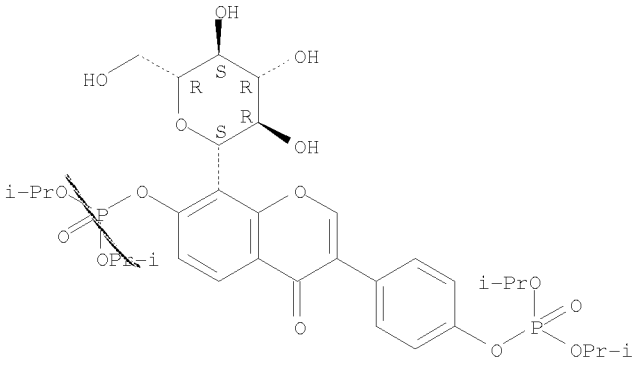
CN Phosphoric acid, 4-[7-[(dipropoxyphosphinyl)oxy]-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-3-yl]phenyl dipropyl ester (CA INDEX NAME)

Absolute stereochemistry.



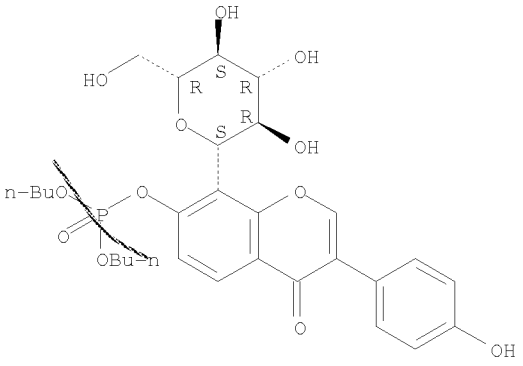
RN 1031330-93-4 CAPLUS
CN Phosphoric acid, 4-[7-[[bis(1-methylethoxy)phosphinyl]oxy]-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-3-yl]phenyl bis(1-methylethyl) ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1031330-95-6 CAPLUS
CN Phosphoric acid, dibutyl 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl ester (CA INDEX NAME)

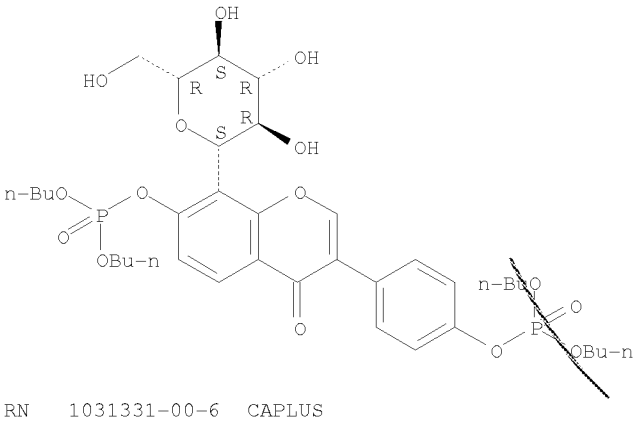
Absolute stereochemistry.



RN 1031330-97-8 CAPLUS

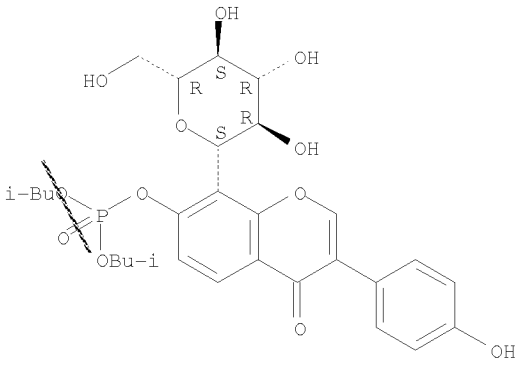
CN Phosphoric acid, dibutyl 4-[7-[(dibutoxyphosphinyl)oxy]-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (CA INDEX NAME)

Absolute stereochemistry.



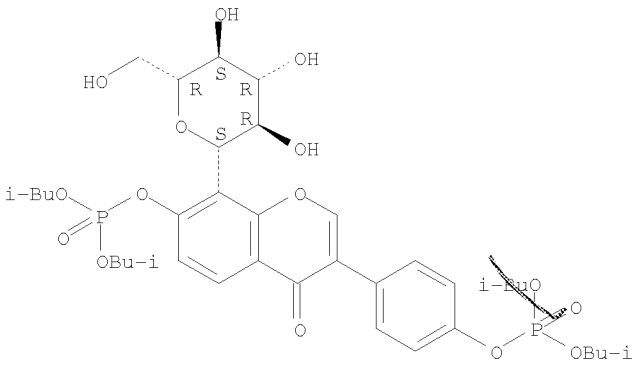
RN 1031331-00-6 CAPLUS
CN Phosphoric acid, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl bis(2-methylpropyl) ester (CA INDEX NAME)

Absolute stereochemistry.



RN 1031331-02-8 CAPLUS
CN Phosphoric acid, 4-[7-[[bis(2-methylpropoxy)phosphinyl]oxy]-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-3-yl]phenyl bis(2-methylpropyl) ester (CA INDEX NAME)

Absolute stereochemistry.

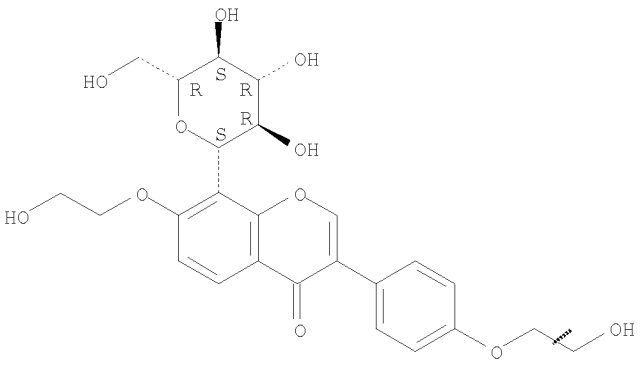


RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 13 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:852415 CAPLUS
DN 147:480075
TI Effects of hydroxyethylpuerarin on levels of NO and NOS in rats with ischemia-reperfusion injury
AU Wang, Ziying; Wei, Xinbing; Sun, Ru; Sun, Xia; Zhang, Xiumei; Zhong, Ying; Zuo, Chunxu
CS School of Medicine, Shandong University, Jinan, Shandong Province, 250012, Peop. Rep. China
SO Zhongguo Yaoxue Zazhi (Beijing, China) (2006), 41(2), 112-114
CODEN: ZYZAEU; ISSN: 1001-2494
PB Zhongguo Yaoxue Zazhishe
DT Journal
LA Chinese
AB The effects of hydroxyethylpuerarin on NO and NOS in rats with focal brain ischemia-reperfusion injury were investigated. Rats were divided into 6 groups randomly, sham-operate group, ischemia-reperfusion group, nimodipine 0.4 mg/kg-1/d-1 group and hydroxyethylpuerarin 30, 60, 120 mg/kg-1/d-1 groups. Rats were prepared with focal brain ischemic injury by middle cerebral artery occlusion (MCAO), and then recovered perfusion by pulling out the suture after 1 h. Rats were treated with medicine at 30 min before and 1, 24, and 36 h after operation. Tissue from the forebrain was homogenized 48 h after reperfusion, and NO and nitric oxide synthase (NOS), including total NOS and inducible nitric oxide synthase (iNOS) were determined NO and NOS levels were significantly increased in the brain tissue of ischemia-reperfusion group compared with sham-operate group. While being compared with ischemia-reperfusion group, NO and NOS levels were significantly decreased in the three hydroxyethylpuerarin-treated groups. Hydroxyethylpuerarin can reduce ischemia-reperfusion injury through decreasing the damages of NO.
IT 240131-05-9, Hydroxyethylpuerarin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effects of hydroxyethylpuerarin on levels of NO and NOS in rats with ischemia-reperfusion injury)
RN 240131-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

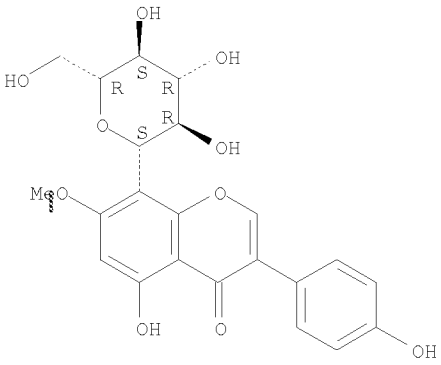
Absolute stereochemistry.



L9 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:723273 CAPLUS
DN 147:197605
TI Studies on chemical constituents of Patrinia villosa
AU Peng, Jinyong; Fan, Guorong; Wu, Yutian
CS College of Pharmacy, Second Military Medical University, Shanghai, 200433, Peop. Rep. China
SO Zhongguo Zhongyao Zazhi (2006), 31(2), 128-130
CODEN: ZZZAE3; ISSN: 1001-5302
PB Zhongguo Zhongyao Zazhishe
DT Journal

LA Chinese
AB The objective of this study is to investigate the chemical constituents of Patrinia villosa. The chemical constituents were isolated by silica gel column chromatog. and semi-preparative high-performance liquid chromatog., and identified by physicochem. properties and spectral anal.(MS, 1H- NMR and 13C-NMR). Seven compds. were isolated from Et acetate and n-butanol extract and identified as: 5-hydroxyl-7, 3',4'-trimethoxy flavone (I), 5-hydroxyl-7, 4'-dimethoxy flavone (II), luteolin (III), quercetin (IV), isoorientin (V), isovitexin (VI) and 8-C glucosylprunetin (VII). Compds. I, II, III, V, VI, and VII were obtained from the plant of genus Patrinia for the first time, compound IV was separated from P. villosa for the first time.
IT 52448-12-1P
RL: PUR (Purification or recovery); PREP (Preparation)
(studies on chemical constituents of Patrinia villosa)
RN 52448-12-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5-hydroxy-3-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

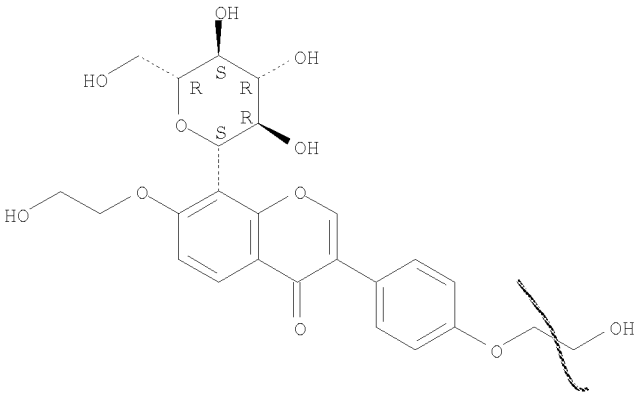
Absolute stereochemistry.



L9 ANSWER 15 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:723016 CAPLUS
DN 147:181221
TI Protective effects of hydroxyethylpuerarin against brain astrocytes injury induced by hydrogen peroxide
AU Zhang, Bin; Wei, Xinbing; Liu, Huiqing; Wang, Lixiang; Sun, Ru; Zhang, Xiumei
CS Institute of Pharmacology, School of Medicine, Shandong University, Jinan, 250012, Peop. Rep. China
SO Yaoxue Xuebao (2006), 41(2), 171-174
CODEN: YHHPAL; ISSN: 0513-4870
PB Yaoxue Xuebao Bianjibu
DT Journal
LA Chinese
AB The objective is to study the protective effects of hydroxyethylpuerarin against the injury of astrocytes induced by hydrogen peroxide(H2O2). Expts. were performed with cells from passage 4. Plasma membrane integrity was measured by lactate dehydrogenase(LDH) release. The occurrence of apoptosis was measured by flow cytometry. The glutamate uptake of astrocytes was studied with [3H]-glutamate incorporation. Intracellular superoxide dismutase(SOD) activity and malondialdehydelevel were assessed by automatic biochem. analyzer. Compared with H2O2 injured group, the occurrence of apoptosis, levels of LDH release and intracellular MDA of astrocytes reduced in hydroxyethylpuerarin pre-treated groups, but the glutamate up take and intracellular SOD activity of astrocytes increased. Hydroxyethylpuerarin could reduce the occurrence of apoptosis and improve neurotrophic function of astrocytes, which may be related with its antioxidant effects during oxidative stress.
IT 240131-05-9, Hydroxyethylpuerarin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(protective effects of hydroxyethylpuerarin against brain astrocytes injury induced by hydrogen peroxide)

RN 240131-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

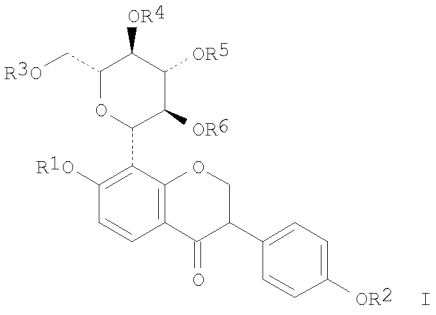
Absolute stereochemistry.



L9 ANSWER 16 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:591008 CAPLUS
DN 147:95471
TI Method for preparation of lactyl puerarin derivatives
IN Huo, Danqun; Hou, Changjun; Shu, Mao
PA Chongqing University, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 13pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1970558	A	20070530	CN 2006-10095262	20061207
PRAI CN 2006-10095262		20061207		

OS CASREACT 147:95471; MARPAT 147:95471
GI

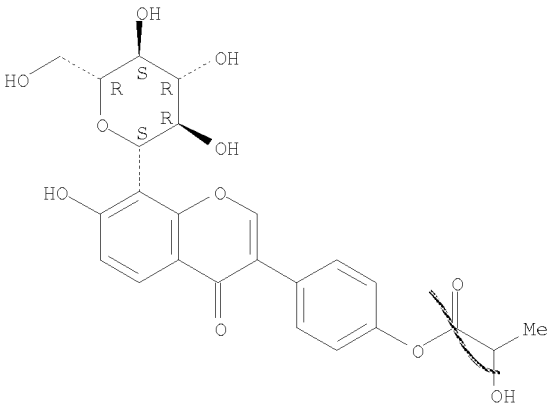


I

AB The claimed lactyl puerarin derivs. have a general formula I (R1,R2,R3,R4,R5,R6 = H or lactyl, and at least one lactyl exist). Claimed lactyl puerarin derivs. were prepared from lactic acid and thionyl chloride to obtain lactyl chloride, then esterification with puerarin in a basic solvent (such as anhydrous pyridine, tetrahydropyridine, triethylamine and DMF) to provide the products. The method is environment-friendly, and has the advantages of simple operation, high yield (greater than 55%), simple product purification, recoverable solvents, and low manufacturing cost.
IT 905916-27-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of lactyl puerarin derivs. via esterification of puerarin with lactyl chloride)

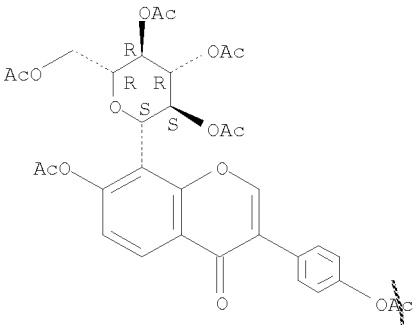
RN 905916-27-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-(2-hydroxy-1-oxopropoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:447975 CAPLUS
DN 147:87267
TI Effects of acetylpuerarin on hippocampal neurons and intracellular free calcium subjected to oxygen-glucose deprivation/reperfusion in primary culture
AU Liu, Rui; Wei, Xin-Bing; Zhang, Xiu-Mei
CS Department of Pharmacology, School of Medicine, Shandong University, Shandong, 250012, Peop. Rep. China
SO Brain Research (2007), 1147, 95-104
CODEN: BRREAP; ISSN: 0006-8993
PB Elsevier Ltd.
DT Journal
LA English
AB This study was undertaken to find out the effects of acetylpuerarin on hippocampal neurons and intracellular free calcium in primary culture subjected to oxygen-glucose deprivation/reperfusion. According to different reperfusion time (1 h, 6 h, 12 h, 24 h), three concns. (1.6 μmol l-1, 0.4 μmol l-1, 0.1 μmol l-1) of acetylpuerarin, and MK-801 (10 μmol l-1), a pos. control drug, neurons were randomly divided into 21 groups. Each group was observed by inverted phase contrast microscope; neuron viability was measured by the reduction of 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT); intracellular Ca2+ was observed by Fura-2/AM ester through fluorospectrophotometer. The injured neurons were protected and degeneration and necrosis were alleviated in treatment groups of acetylpuerarin and MK-801. Acetylpuerarin increased the neuron viability at high, middle and low concns. Fluorescence detection results showed that the calcium concentration in the group treated with acetylpuerarin and MK-801 was lowered in each reperfusion time. Our results demonstrated that acetylpuerarin could protect the hippocampal neurons from ischemia-reperfusion injury in rats by alleviating the morphol. damage, increasing neuron viability and decreasing calcium concentration in neuron.
IT 2889-07-8
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effects of acetylpuerarin on hippocampal neurons and intracellular free calcium subjected to oxygen-glucose deprivation/reperfusion in primary culture)
RN 2889-07-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



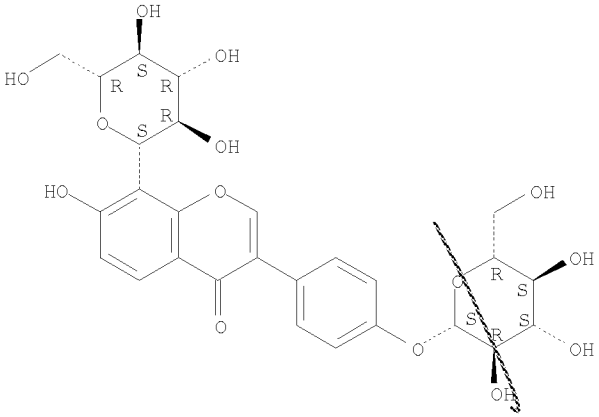
RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:416242 CAPLUS
DN 146:475689
TI Method for manufacturing composition for treating cardiovascular and cerebrovascular diseases
IN Chen, Dihua; Du, Lijun; Si, Jianyong; Chang, Qi; You, Baocheng; Ma, Nan; Lu, Zhenmin; Pan, Xueqing; Yang, Lin; Sun, Baohua
PA Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences, Peop. Rep. China; Anhui Gujing Group Jiufang Pharmaceutical Co., Ltd.
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 22pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1943584	A	20070411	CN 2006-10113893	20061020
PRAI CN 2006-10113893		20061020		

AB The title composition is composed of (by weight parts) formononetin-7-O-glucoside 4.5-5.5, daidzin 6.7-8.2, 3'-methoxyl puerarin 4.5-5.5, puerarin 44-54, glucoside B of Radix Puerariae 1.8-2.2, daidzein-8-C-apiosyl-(1-6)-glucoside 17-21, puerarin xyloside 2.7-3.3, daidzein-7,4'-diglucoside 0.9-1.3, 3'-hydroxy puerarin 4.5-5.5, puerarin-4'-O-glucoside 3-3.7, quercetin-4'-O-glucoside 0.4-0.5, 4'-methoxyl genistin 0.9-1.0, and glucoside C of Radix Puerariae 0.9-1.3. The composition can be used for inhibiting platelet aggregation, lowering blood viscosity, activating fibrinolysin, and inhibiting thrombosis.
IT 117047-08-2P
RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(method for manufacturing composition for treating cardiovascular and cerebrovascular diseases)
RN 117047-08-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:416144 CAPLUS
DN 146:448275
TI Puerarin derivatives and its medicinal application
IN Feng, Zhiqiang; Guo, Zongru; Chu, Fengming; Sun, Piaoyang; Zhou, Yunshu; Yuan, Kaihong
PA Institute of Materia Medica, Chinese Academy of Medical Sciences, Peop. Rep. China; Jiangsu Hengrui Medicine Co., Ltd.
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 24pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

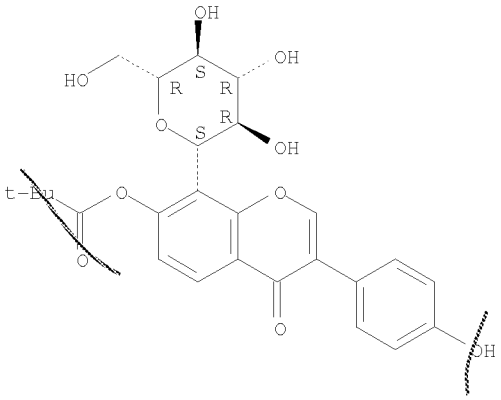
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1944448	A	20070411	CN 2006-10000814	20060111
PRAI CN 2005-10000423	A	20050111		

AB The invention discloses puerarin derivs. represented in a general formula, its preparation method, medicinal combination containing one or more of such compds., and application of such compds. in preparing drugs related to heart and brain circulation diseases, as well as retinal arteriovenous occlusion, sudden deafness and other diseases and improving memory, and lowering blood sugar.

IT 934696-09-0P 934696-10-3P 934696-11-4P
934696-12-5P 934696-13-6P 934696-15-8P
934696-17-0P 934696-20-5P 934696-21-6P
934696-25-0P 934696-26-1P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(puerarin derivs. and its medicinal application)

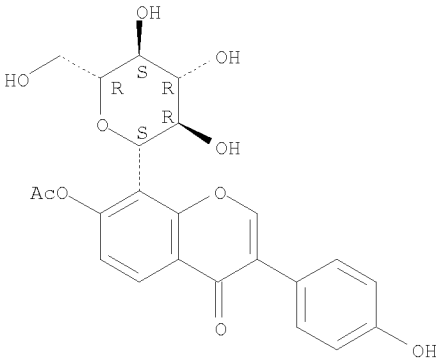
RN 934696-09-0 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl ester (CA INDEX NAME)

Absolute stereochemistry.



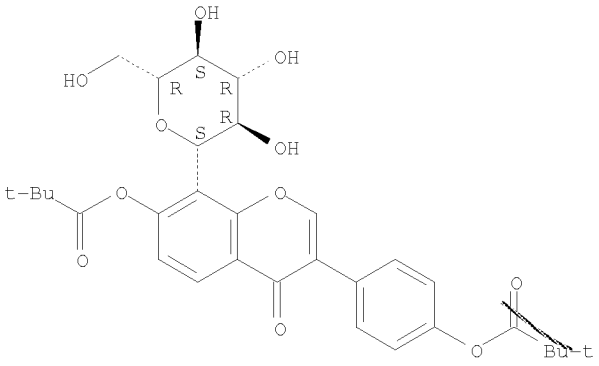
RN 934696-10-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



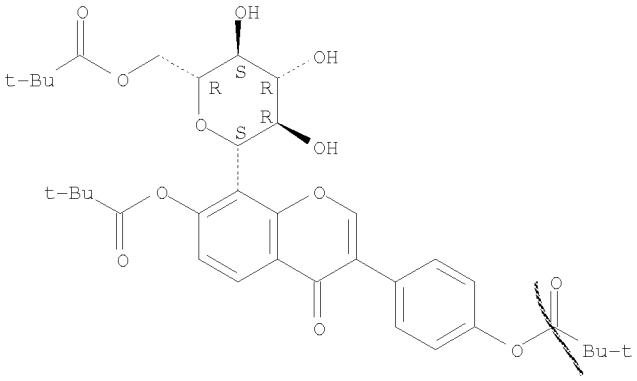
RN 934696-11-4 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 4-[7-(2,2-dimethyl-1-oxopropoxy)-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (CA INDEX NAME)

Absolute stereochemistry.



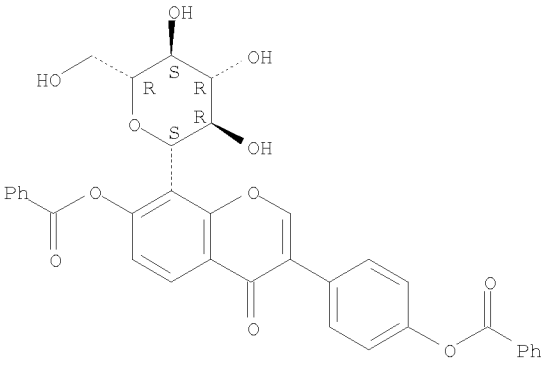
RN 934696-12-5 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 4-[7-(2,2-dimethyl-1-oxopropoxy)-8-[6-O-(2,2-dimethyl-1-oxopropyl)-β-D-glucopyranosyl]-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (CA INDEX NAME)

Absolute stereochemistry.



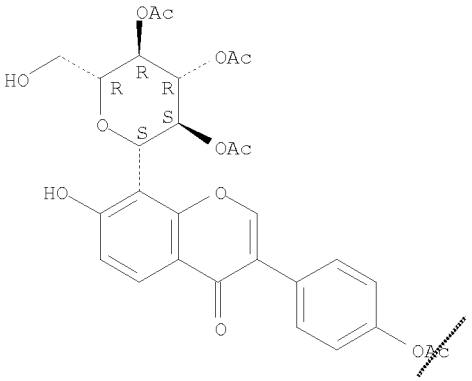
RN 934696-13-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(benzoyloxy)-3-[4-(benzoyloxy)phenyl]-8-β-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



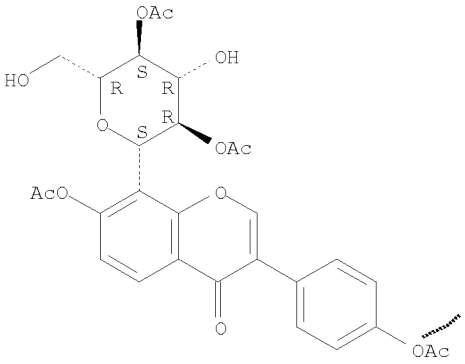
RN 934696-15-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-(acetyloxy)phenyl]-7-hydroxy-8-(2,3,4-tri-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



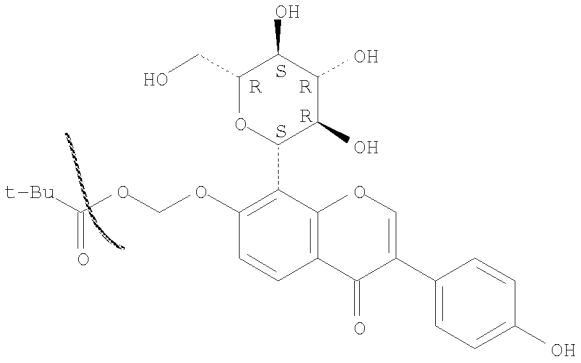
RN 934696-17-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,4-di-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



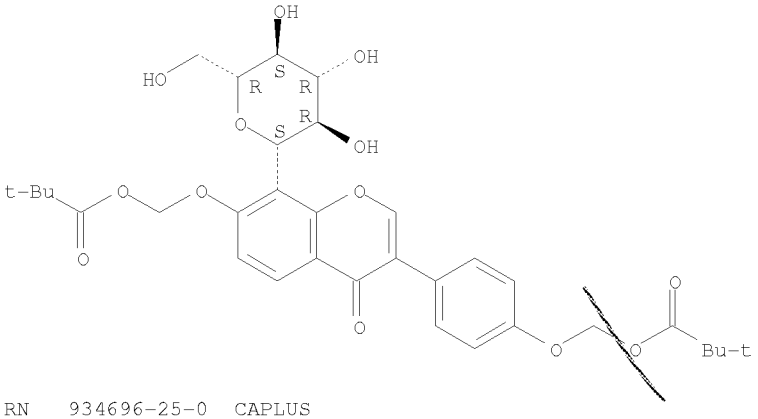
RN 934696-20-5 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, [[8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]methyl ester (CA INDEX NAME)

Absolute stereochemistry.



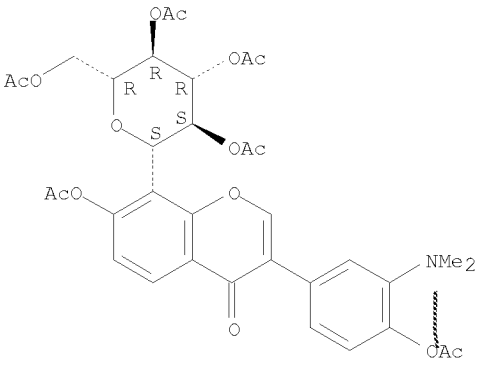
RN 934696-21-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, [4-[7-[(2,2-dimethyl-1-oxopropoxy)methoxy]-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-3-yl]phenoxy]methyl ester (CA INDEX NAME)

Absolute stereochemistry.



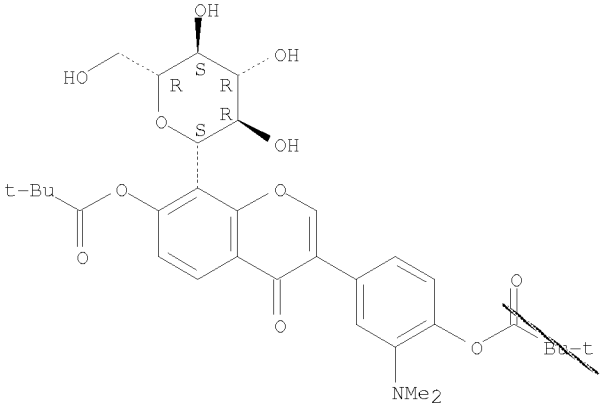
RN 934696-25-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)-3-(dimethylamino)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



RN 934696-26-1 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 2-(dimethylamino)-4-[7-(2,2-dimethyl-1-oxopropoxy)-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (CA INDEX NAME)

Absolute stereochemistry.



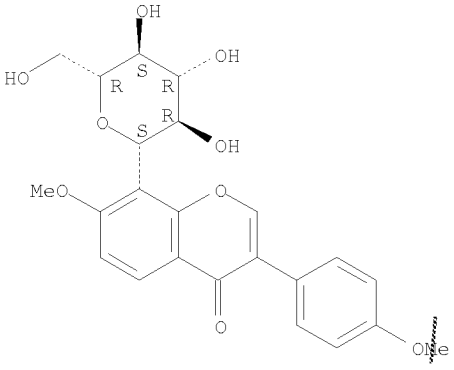
L9 ANSWER 20 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:211423 CAPLUS
DN 146:434929
TI Flavonoids Possess Neuroprotective Effects on Cultured Pheochromocytoma PC12 Cells: A Comparison of Different Flavonoids in Activating Estrogenic Effect and in Preventing β-Amyloid-Induced Cell Death
AU Zhu, Judy T. T.; Choi, Roy C. Y.; Chu, Glanice K. Y.; Cheung, Anna W. H.; Gao, Qiu T.; Li, Jun; Jiang, Zhi Y.; Dong, Tina T. X.; Tsim, Karl W. K.
CS Departments of Biology and Center for Chinese Medicine, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong, Peop. Rep. China
SO Journal of Agricultural and Food Chemistry (2007), 55(6), 2438-2445
CODEN: JAFCAU; ISSN: 0021-8561
PB American Chemical Society
DT Journal
LA English
AB Despite the classical hormonal effect, estrogen possesses a neuroprotective effect in the brain, which has led many to search for novel treatments for neurodegenerative diseases. Flavonoids, a group of compds. mainly derived from vegetables, share a resemblance, chemical, to estrogen, and indeed, some have been used as estrogen substitutes. To search for potential therapeutic agents against neurodegenerative diseases, different subclasses of flavonoids were analyzed and compared with estrogen. First, the estrogenic activities of these flavonoids were determined by activating the estrogen-responsive elements in cultured MCF-7

breast cancer cells. Second, the neuroprotective effects of flavonoids were revealed by measuring its inhibition effects on the formation of reactive oxygen species, the aggregation of β-amyloid, and the induction of cell death by β-amyloid in cultured neuronal PC12 cells. Among these flavonoids, baicalein, scutellarin, hibifolin, and quercetin-3'-glucoside possessed the strongest effect in neuroprotection; however, the neuroprotective activity did not directly correlate with the estrogenic activity of the flavonoids. Identification of these flavonoids could be very useful in finding potential drugs, or food supplements, for treating Alzheimer's disease.

IT 69655-50-1 905916-24-7
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(flavonoids possess neuroprotective effects on cultured pheochromocytoma PC12 cells and comparison of different flavonoids in activating estrogenic effect and in preventing β-amyloid-induced cell death)

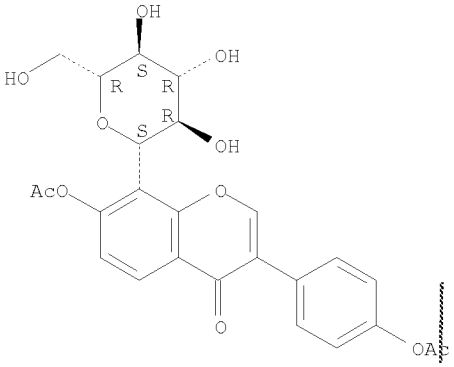
RN 69655-50-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-methoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



RN 905916-24-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-β-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.

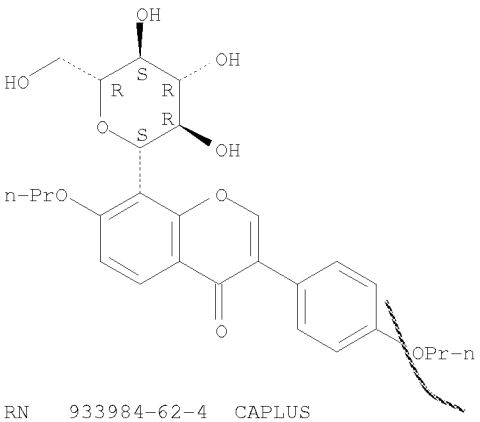


RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:165340 CAPLUS
DN 146:400737
TI Puerarin and Conjugate Bases as Radical Scavengers and Antioxidants: Molecular Mechanism and Synergism with β-Carotene

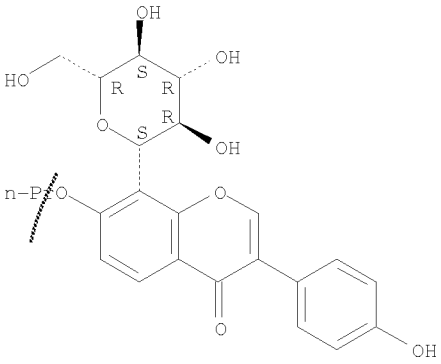
AU Han, Rui-Min; Tian, Yu-Xi; Becker, Eleonora Miquel; Andersen, Mogens L.; Zhang, Jian-Ping; Skibsted, Leif H.
CS Department of Chemistry, Renmin University of China, Beijing, 100872, Peop. Rep. China
SO Journal of Agricultural and Food Chemistry (2007), 55(6), 2384-2391
CODEN: JAFCAU; ISSN: 0021-8561
PB American Chemical Society
DT Journal
LA English
AB The 4'-hydroxyl group of puerarin, a C-glycoside of the isoflavonoid daidzein, was shown, using 2,2'-azino-bis(3-ethylbenzthiazoline-6-sulfonic acid) radical cation and stopped-flow spectroscopy and by comparison with the 7-propylpuerarin (A ring derivative) and 4'-propylpuerarin (B ring derivative), to be a more efficient radical scavenger as compared to the 7-hydroxyl group by a factor of 2, a difference increasing upon deprotonation. The difference in radical scavenging agreed with the oxidation potentials (cyclic voltammetry in acetonitrile, 0.1 M Bu4NBF4 at 25 °C): E/mV = 862 ± 3 for puerarin, 905 ± 10 for 7-propylpuerarin, and 1064 ± 2 for 4'-propylpuerarin relative to ferrocene/ferricenium. In aqueous solution, the reduction potential was shown to decrease for increasing pH, and deprotonation of the 4'-hydroxyl group increased radical scavenging more than deprotonation of the 7-hydroxyl group. The 7-hydroxyl was found to be more acidic (pKa1 = 7.20 ± 0.01 in puerarin and pKa = 7.23 ± 0.01 in 4'-propylpuerarin) than the 4'-hydroxyl group (pKa2 = 9.84 ± 0.08 in puerarin and pKa = 9.51 ± 0.02 in 7-propylpuerarin); aqueous solution, ionic strength of 0.1, and 25 °C. In phosphatidyl choline liposome of pH 7.4, puerarin and β-carotene each showed a modest antioxidant activity measured as prolongation of the lag phase for formation of conjugate dienes and using the water-soluble radical initiator APPH with effects of puerarin and β-carotene being additive. For the lipophilic initiator AMVN, the antioxidative effect decreased for puerarin and increased for β-carotene as compared to APPH and showed a clear synergism. A regeneration of β-carotene, effective in the liposome lipid phase as antioxidant, from the cation radical by deprotonated forms of puerarin was demonstrated in 9:1 chloroform/methanol using laser flash photolysis with k2 = 2.7 + 104 L mol-1 s-1 for the bimol. process between the cation radical and the puerarin dianion.
IT 623900-91-4 933984-62-4 933984-63-5
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(puerarin and conjugate bases as radical scavengers and antioxidants as to mol. mechanism and synergism with β-carotene)
RN 623900-91-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-propoxy-3-(4-propoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



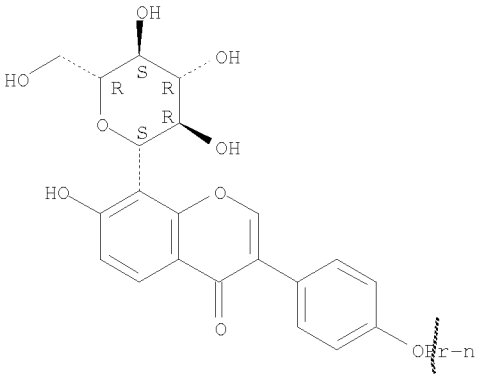
RN 933984-62-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-7-propoxy- (CA INDEX NAME)

Absolute stereochemistry.



RN 933984-63-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-propoxyphenyl)- (CA INDEX NAME)

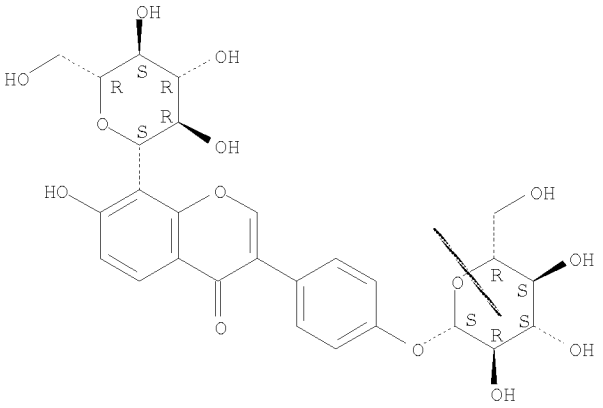
Absolute stereochemistry.



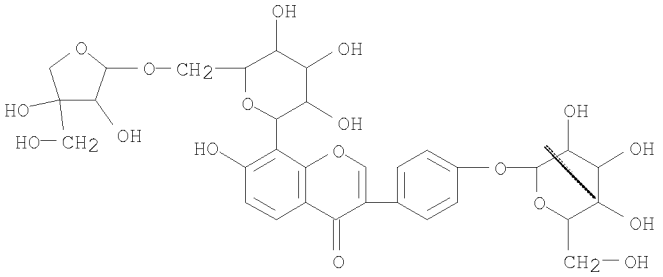
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:124524 CAPLUS
DN 147:207675
TI Chemical constituents from Pueraria lobata
AU Si, Jian-yong; Chang, Qi; Shen, Lian-gang; Chen, Di-hua
CS Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100094, Peop. Rep. China
SO Journal of Chinese Pharmaceutical Sciences (2006), 15(4), 248-250
CODEN: JCHSE4; ISSN: 1003-1057
PB Journal of Chinese Pharmaceutical Sciences
DT Journal
LA English
AB The chemical isolation of fourteen compds. from Pueraria lobata and their structures are presented. Such compds. include daidzein, ononin, daidzin, 3'-methoxy puerarin, puerarin, pueroside B, daidzein-8-C-apiosyl-(1-6)-glucoside, 3'-hydroxy-puerarin, puerarinxyloside, daidzein-7, 4'O-glucoside, puerarin-4'-O-glucoside, mirificin-4'-O-glucoside, sissotorin, and pueroside C.
IT 117047-08-2P 168035-01-6P, Mirificin-4'-O-glucoside
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(chemical constituents from Pueraria lobata)
RN 117047-08-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



RN 168035-01-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-(6-O-D-apio-β-D-furanosyl-β-D-glucopyranosyl)-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

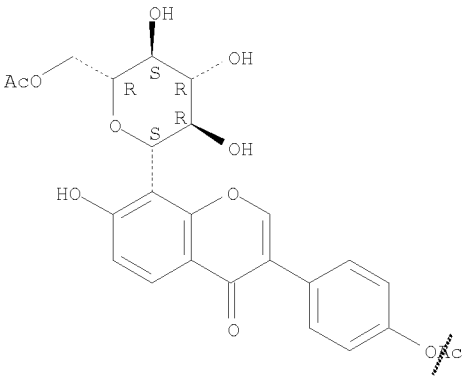
L9 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:1202181 CAPLUS
DN 146:32821
TI Medicinal composite containing borneol and musk for curing coma, cardiovascular disease, cerebrovascular disease, senile dementia and diabetes
IN Lin, Yanhe
PA Shenzhen Biovalley Technologies Co., Ltd., Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 19pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1857447	A	20061108	CN 2006-10065847	20060327
PRAI	CN 2006-10065847		20060327		

AB The medicinal composite comprises active component 10-90 wt% and adjuvant 90-10 wt%. The active component comprises a) borneol; b)musk or its extract; c) Paeonia albiflora or its extract; d) extract of Salvia miltiorrhiza, or gingko biloba, or safflower, puerarin, rhizoma chuanxiong and panax ginseng. The medicinal composite containing borneol and musk is used to cure coma, cardiovascular disease, cerebrovascular disease, senile dementia and diabetes.
IT 24562-39-8, Puerarin diacetate
RL: NPO (Natural product occurrence); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(preparation of medicinal composite containing borneol and musk for curing coma,

cardiovascular disease, cerebrovascular disease, senile dementia and diabetes)
RN 24562-39-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-(6-O-acetyl-β-D-glucopyranosyl)-3-[4-(acetyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.

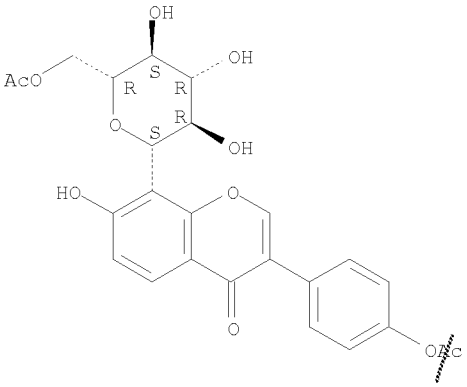


L9 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:1202175 CAPLUS
DN 146:32925
TI Medicinal composite containing musk for curing coma, cardiovascular disease, cerebrovascular disease, senile dementia and diabetes
IN Lin, Yanhe
PA Shenzhen Biovalley Technologies Co., Ltd., Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 17pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1857446	A	20061108	CN 2006-10065846	20060327
PRAI CN 2006-10065846		20060327		

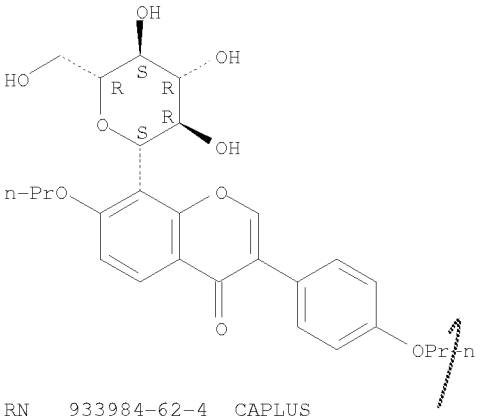
AB The medicinal composite comprises active component 10-90 wt% and adjuvant 90-10 wt%. The active component comprises a) musk or its extract; b) Paeonia albiflora or its extract; c) extract of Salvia miltiorrhiza, or gingko biloba, or safflower, puerarin, rhizoma chuanxiong and panax ginseng. The medicinal composite containing borneol and musk is used to cure coma, cardiovascular disease, cerebrovascular disease, senile dementia and diabetes.
IT 24562-39-8, Puerarin diacetate
RL: NPO (Natural product occurrence); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(preparation of medicinal composite containing musk for curing coma, cardiovascular disease, cerebrovascular disease, senile dementia and diabetes)
RN 24562-39-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-(6-O-acetyl-β-D-glucopyranosyl)-3-[4-(acetyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



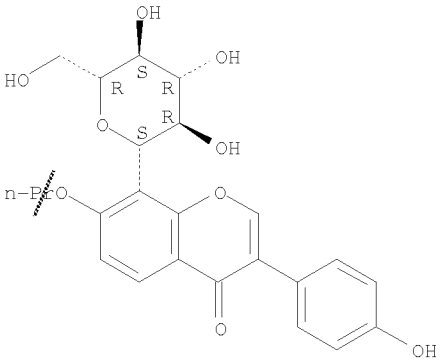
L9 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:1038255 CAPLUS
DN 147:31285
TI Synthesis and characterization of puerarin derivatives and the mechanism of derivation reaction
AU Han, Rui-Min; Tian, Yu-Xi; Wang, Peng; Xiang, Jun-Feng; Ai, Xi-Cheng; Zhang, Jian-Ping
CS State Key Lab. Structural Chem. of Unstable and Stable Species, Chinese Acad. Sci., Beijing, 100080, Peop. Rep. China
SO Gaodeng Xuexiao Huaxue Xuebao (2006), 27(9), 1716-1720
CODEN: KTHPDM; ISSN: 0251-0790
PB Gaodeng Jiaoyu Chubanshe
DT Journal
LA Chinese
OS CASREACT 147:31285
AB 7,4'-Dipropylpuerarin [i.e., 8-(β-D-glucopyranosyl)-7-propoxy-3-(4-propoxyphenyl)-4H-1-benzopyran-4-one] (I), 7-(propyl)puerarin (II) and 4'-(propyl)puerarin (III) were synthesized and characterized by using 1H NMR, NOESY and HRMS. Among the derivs., II is a new-type of substituted compound of puerarin. 1H NMR spectroscopic anal. of aromatic protons combined with theor. anal. of mol. structures proved the existence of two rotational isomers at 300 K, as well as a rapid interconversion equilibrium at 330 K for both compds. I and II. However, only one conformer exists for compound III and puerarin containing a 7-phenolic hydroxy group instead of Pr in the A-ring as the case of compds. I and II. Based on UV-Visible absorption data of neutral and basic solns., and on the d. function calcns., the 7-phenolic hydroxy group in the A-ring was found to be more acidic than the 4'-phenolic hydroxyl group in B-ring. The mechanism of derivation reaction and the structure-reactivity relationship of puerarin as an antioxidant were further discussed.
IT 623900-91-4P, 7,4'-Dipropylpuerarin 933984-62-4P, 7-Propylpuerarin 933984-63-5P, 4'-Propylpuerarin
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of (propyl)puerarin derivs., study of properties of their conformers and rotamers and study of their antioxidant structure-activity relationship)
RN 623900-91-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-propoxy-3-(4-propoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



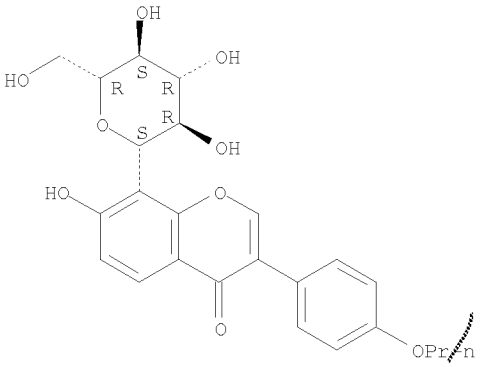
RN 933984-62-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-7-propoxy- (CA INDEX NAME)

Absolute stereochemistry.



RN 933984-63-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-propoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



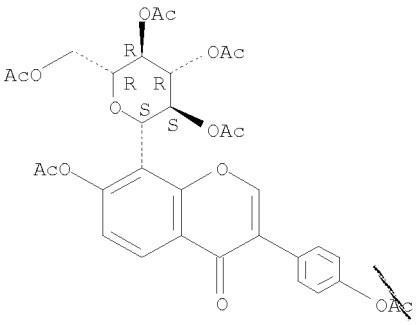
L9 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:936445 CAPLUS
DN 145:342398
TI Application of hexaacetylpuerarin as medicine for treating ischemic cerebrovascular diseases
IN Zuo, Chunxu; Zhang, Youmei; Zhong, Ying; Li, Xuemei; Hou, Li; Liu, Jikai;

Lin, Zhonglian; Chen, Jianqiang; Li, Anguo; Yan, Qinbin; He, Hongping; Yang, Min
PA Shanxi Zhenping Pharmaceutical Factory, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 15pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1823801	A	20060830	CN 2005-10042516	20050225
PRAI CN 2005-10042516		20050225		

AB Hexaacetylpuerarin is prepared by extracting Pueraria lobata, dissolving the extract in acetic anhydride, and acetylating to obtain a bioactive puerarin derivative (hexaacetylpuerarin). Hexaacetylpuerarin can be used in medicine, especially oral agent, for treating ischemic cerebrovascular diseases.
IT 2889-07-8P, Puerarin, hexaacetate
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(application of hexaacetylpuerarin as medicine for treating ischemic cerebrovascular diseases)
RN 2889-07-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



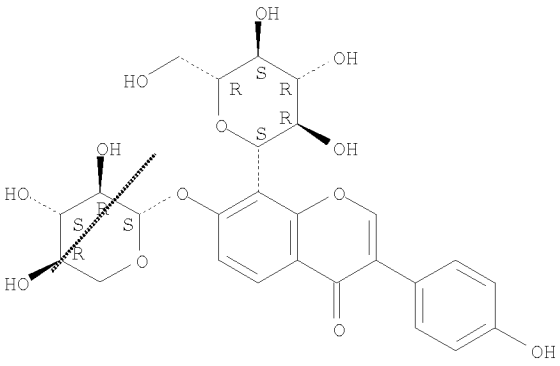
L9 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:907251 CAPLUS
DN 145:342220
TI Medical composition containing borneol for treating cardio-cerebral vascular diseases and diabetes
IN Lin, Yanhe
PA Shenzhen Biovalley Technologies Co., Ltd., Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 30pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1823922	A	20060830	CN 2005-10132563	20051226
CN 100391489	C	20080604		
PRAI CN 2005-10132563		20051226		

AB The title medical composition is composed of active constituent 10-90 and pharmaceutical adjuvant 90-10%, wherein active constituent comprises borneol 1-15, Paeonia root powder or active ingredient thereof 5-85 and/or Salvia miltiorrhiza extract, Erigeron breviscapus or its extract, Carthamus tinctorius extract, isoflavonoid extract, ginkgo extract, Ligusticum chuanxiong extract and/or ginseng extract 15-200 part. The medical composition can be prepared into tablet, soft capsule, dripping pill, oral disintegrating tablet, slow-release tablet, freeze-dried powder for treating coma, cardio-cerebral vascular diseases and diabetes.
IT 303114-83-2
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(herbal composition containing borneol for treating cardio- and cerebro-vascular diseases and diabetes)
RN 303114-83-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-7-(β-D-xylopyranosyloxy)- (CA INDEX NAME)

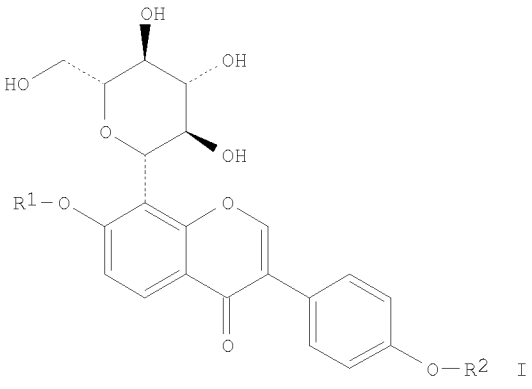
Absolute stereochemistry.



L9 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:695558 CAPLUS
DN 145:249448
TI Preparation of puerarin derivatives as antiischemics
IN Huo, Danqun; Shi, Kaiyun; Hou, Changjun; Shu, Mao
PA Chongqing University, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1800196	A	20060712	CN 2006-10054014	20060110
PRAI CN 2006-10054014		20060110		

OS CASREACT 145:249448; MARPAT 145:249448
GI



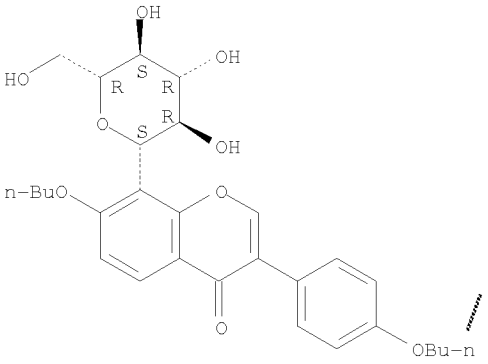
AB The title derivs. I [R1, R2 = H, alkyl, linear or branched alkanoyl or aroyl, or metal (Na, K, Mg, Ca, or Zn) ion with the proviso that R1 and R2 are not H at the same time; and 1-site of D-glucosyl is connected with 8-site of isoflavone by β-configuration] are prepared by butylating puerarin with di-Bu sulfate, di-Bu carbonate, or Bu halide in ketone or alc.; or acylating puerarin with acyl halide in water, haloalkane, ketone or alc. under neutral or weakly basic condition; or reacting puerarin with

sodium/potassium hydroxide for salifying in ketone, ether or alc. to obtain different puerarin derivs. The inventive derivs. have better resistance to oxygen deficiency, higher water-solubility and/or oil-solubility

IT 905916-20-3P 905916-24-7P 905916-27-0P
905916-32-7P
RL: ADV (Adverse effect, including toxicity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of puerarin derivs. as antiischemics)

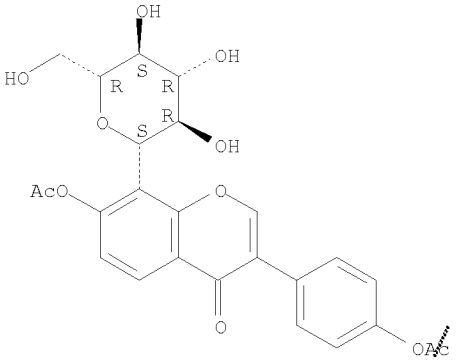
RN 905916-20-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-butoxy-3-(4-butoxyphenyl)-8-β-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



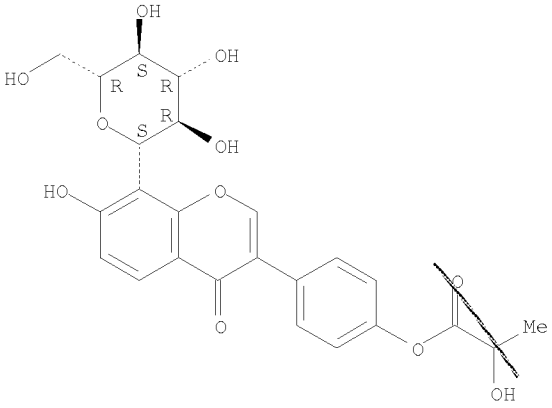
RN 905916-24-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-β-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



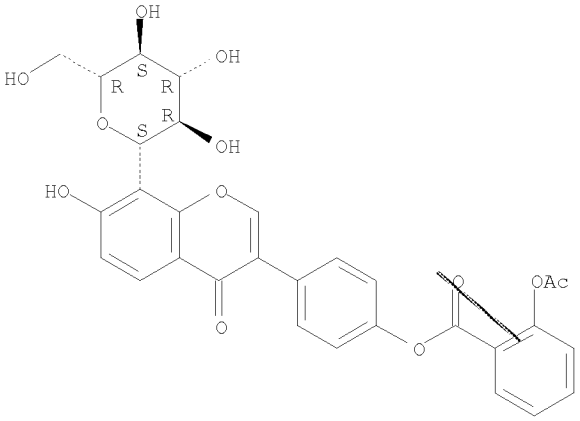
RN 905916-27-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-(2-hydroxy-1-oxopropoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 905916-32-7 CAPLUS
CN Benzoic acid, 2-(acetyloxy)-, 4-[8-β-D-glucopyranosyl-7-hydroxy-4-oxo-4H-1-benzopyran-3-yl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:525663 CAPLUS
DN 145:348396
TI Protective effects of hydroxyethylpuerarin on cultured bovine cerebral microvascular endothelial cells damaged by hydrogen peroxide
AU Guang, Hongmei; Zhang, Xiumei; Li, Yingquan; Wei, Xinbing; Wang, Ziying; Liu, Huiqing
CS Department of Pharmacology, School of Medicine, Shandong University, Jinan, 250012, Peop. Rep. China
SO Yaoxue Xuebao (2005), 40(3), 220-224
CODEN: YHHPAL; ISSN: 0513-4870
PB Yaoxue Xuebao Bianjibu
DT Journal
LA English
AB The damages induced by H2O2 in cultured bovine cerebral microvascular endothelial cells (BCMEC) were observed and the protective effects of hydroxyethylpuerarin on H2O2-injured BCMEC were evaluated. BCMECs were cultured and transferred into modified Eagle medium (MEM). The viability of cells was detected by MTT assay. Cell injury was determined by lactate dehydrogenase (LDH) activity in the extracellular medium. Flow cytometry was used to observe the occurrence of apoptosis. Morphol. changes of cells were visualized under phase contrast and electron microscopes. H2O2 (200 μM, for 4 h) inhibited the viability of cultured BCMEC and stimulated LDH release. H2O2 (100 μM, for 4 h) induced the occurrence of apoptosis. Hydroxyethylpuerarin increased the survival rate and decreased the activity of LDH of BCMEC damaged by H2O2.

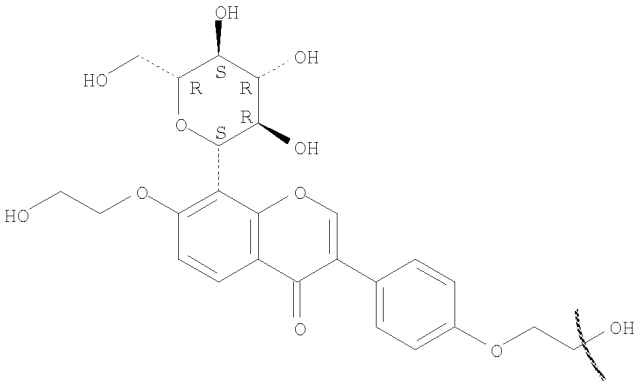
Hydroxyethylpuerarin also protected BCMEC against apoptosis induced by H2O2. H2O2 induces BCMEC injury either by apoptosis or through necrosis, hydroxyethylpuerarin protects BCMEC against H2O2-induced injury in a concentration-dependent manner, and its antioxidant effects might be involved as the mechanism protection.

IT 240131-05-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(protective effects of hydroxyethylpuerarin on cerebral microvascular endothelial cells)

RN 240131-05-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2006:500363 CAPLUS

DN 146:198334

TI Effect of acetylpuerarin on NO level and NOS activity in brain tissue and serum of focal cerebral ischemia reperfusion injury rats

AU Li, Xuemei; Wei, Xinbing; Zhang, Xiumei; Hou, Li; Zhong, Ying; Zuo, Chunxu

CS School of Medicine, Shandong University, Jinan, Shandong Province, 250012, Peop. Rep. China

SO Zhongguo Yaoxue Zazhi (Beijing, China) (2005), 40(11), 829-832
CODEN: ZYZAEU; ISSN: 1001-2494

PB Zhongguo Yaoxue Zazhishe

DT Journal

LA Chinese

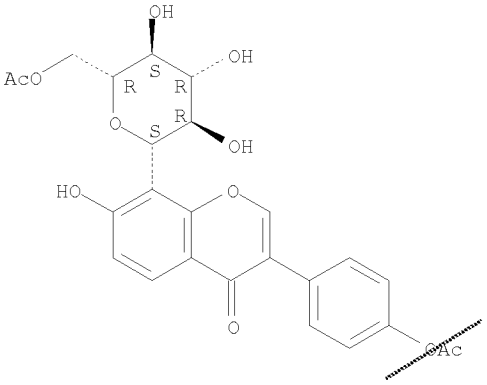
AB The neuroprotective effect of acetylpuerarin (compound N-2211) and puerarin on focal cerebral ischemia-reperfusion injury was studied. The nitric oxide (NO) level and nitric oxide synthase (NOS) activity in brain tissue and serum were measured in the rats with reversible middle cerebral artery occlusion (MCAO) without craniectomy. The levels of NO and NOS in brain homogenate increased significantly in ischemia-reperfusion group, compared with sham group, and there was the same change happened for the level of NO in serum ($P<0.01$). NO and NOS levels in brain tissue and NO in serum decreased in acetylpuerarin-treated groups and puerarin-treated group, compared with ischemia-reperfusion rats ($P<0.05$). At the same time, the number of living pyramidal cells in CA1 region of hippocampus increased significantly in acetylpuerarin-treated rats and puerarin-treated rats, compared with ischemia-reperfusion rats. The results suggested that the effect of acetylpuerarin and puerarin on decreasing NO production played a role on the amelioration of focal brain ischemia-reperfusion injury.

IT 24562-39-8
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effect of acetylpuerarin on NO and NOS in brain and serum of focal cerebral ischemia reperfusion injury rats)

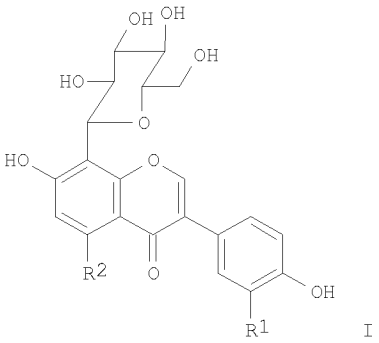
RN 24562-39-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 8-(6-O-acetyl-β-D-glucopyranosyl)-3-[4-(acetyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:478988 CAPLUS
DN 145:145938
TI Total synthesis of two isoflavone C-glycosides: Genistein and orobol 8-C-β-D-glucopyranosides
AU Sato, Shingo; Hiroe, Kaoru; Kumazawa, Toshihiro; Onodera, Jun-ichi
CS Department of Chemistry and Chemical Engineering, Faculty of Engineering, Yamagata University, Yonezawa-shi, Yamagata, 992-8510, Japan
SO Carbohydrate Research (2006), 341(9), 1091-1095
CODEN: CRBRAT; ISSN: 0008-6215
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 145:145938
GI



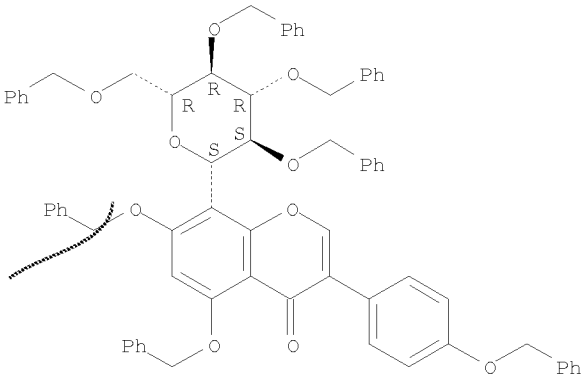
AB Genistein and orobol 8-C-β-D-glucopyranosides I (R1 = H, R2 = OH; R1 = OH, R2 = OH) were synthesized for the first time in overall yields of 39% and 41% from 2,4-di-O-benzylphloroacetophenone (II). Chalcone glycosides were synthesized via aldol condensation of the benzyl-protected C-glycosylphloroacetophenone, a key intermediate, which was synthesized by a C-glycosylation method involving the O→C glycoside rearrangement of II in 96% yield. Isoflavone glycosides were formed by the formation of acetals by oxidative rearrangement of the protected chalcones using Tl(NO3)3, followed by acid-catalyzed cyclization. Then, debenzylation by hydrogenolysis gave the title compds.
IT 898550-59-9P 898550-60-2P 898550-61-3P
898550-62-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of genistein and orobol 8-C-β-D-glucopyranosides via C-glycosylation, aldol condensation, oxidative rearrangement,

acid-catalyzed cyclization and debenzylation/hydrogenolysis from dibenzylphloroacetophenone)

RN 898550-59-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-bis(phenylmethoxy)-3-[4-(phenylmethoxy)phenyl]-8-[2,3,4,6-tetrakis-O-(phenylmethyl)-β-D-glucopyranosyl]- (CA INDEX NAME)

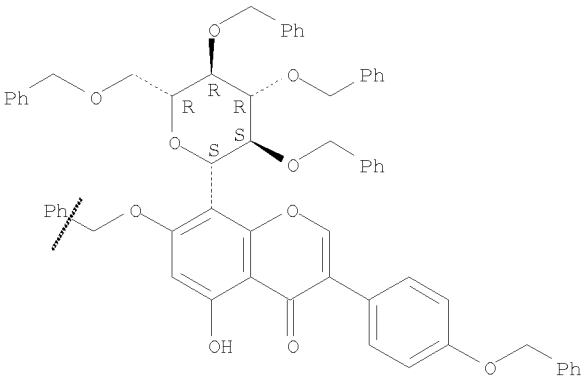
Absolute stereochemistry. Rotation (-).



RN 898550-60-2 CAPLUS

CN 4H-1-Benzopyran-4-one, 5-hydroxy-7-(phenylmethoxy)-3-[4-(phenylmethoxy)phenyl]-8-[2,3,4,6-tetrakis-O-(phenylmethyl)-β-D-glucopyranosyl]- (CA INDEX NAME)

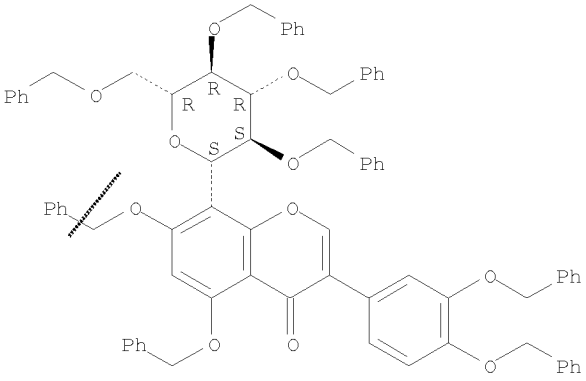
Absolute stereochemistry. Rotation (-).



RN 898550-61-3 CAPLUS

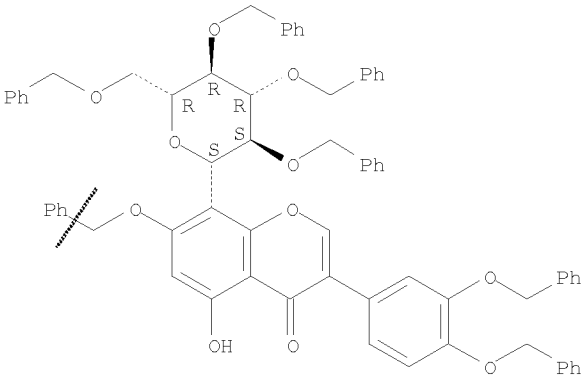
CN 4H-1-Benzopyran-4-one, 3-[3,4-bis(phenylmethoxy)phenyl]-5,7-bis(phenylmethoxy)-8-[2,3,4,6-tetrakis-O-(phenylmethyl)-β-D-glucopyranosyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 898550-62-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[3,4-bis(phenylmethoxy)phenyl]-5-hydroxy-7-(phenylmethoxy)-8-[2,3,4,6-tetrakis-O-(phenylmethyl)-β-D-glucopyranosyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:365355 CAPLUS
DN 144:381954
TI Synthesis of acetylated puerarin derivatives for improved bioavailability
IN Chan, Albert Sun-Chi; Chen, Shi Lin; Li, Yueming; Yang, Dajian
PA Hong Kong
SO U.S. Pat. Appl. Publ., 16 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20060084615	A1	20060420	US 2004-969571	20041020
	CN 1763030	A	20060426	CN 2004-10096209	20041125
	WO 2006042454	A1	20060427	WO 2005-CN1676	20051012

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,

CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI US 2004-969571 A 20041020

OS CASREACT 144:381954; MARPAT 144:381954

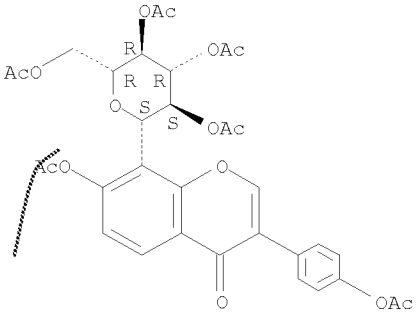
AB The present invention provides acetylated derivs. of the compound puerarin that have enhanced bioavailability and are particularly suitable for oral administration. The present invention also teaches the use of medicaments containing acetylated derivs. of puerarin that are suitable for the treatment of myocardial ischemia and for modulating blood lipid levels, dilating coronary and cerebral arteries, reducing oxygen consumption of cardiomyocytes, improving microcirculation and preventing aggregation of blood platelets.

IT 2889-07-8P 882979-98-8P
RL: PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis of acetylated puerarin derivs. for improved bioavailability)

RN 2889-07-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

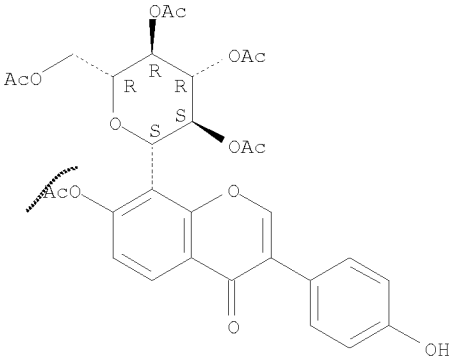
Absolute stereochemistry.



RN 882979-98-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-(4-hydroxyphenyl)-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2006:91447 CAPLUS

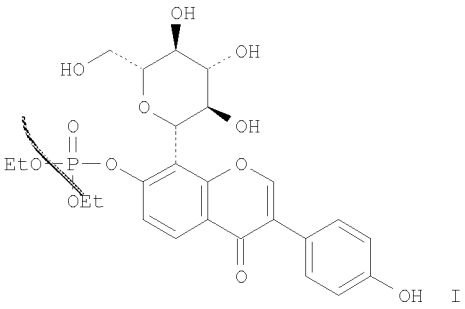
DN 146:62994

TI A novel conformation investigation on newly synthesized compound of diethyl puerarin-7-yl phosphate

AU Yuan, Jin-Wei; Chen, Xiao-Lan; Qu, Ling-Bo; Tang, Ming-Sheng; Liang, Rui-Ling; Zhao, Yu-Fen

CS Dep. Chem., Key Lab. Chem. Biol., Zhengzhou Univ., Zhengzhou, 450052, Peop. Rep. China

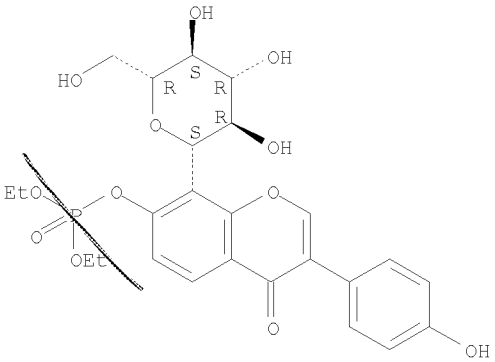
SO Jiegou Huaxue (2006), 25(1), 78-84
CODEN: JHUADF; ISSN: 0254-5861
PB Jiegou Huaxue Bianji Weiyuanhui
DT Journal
LA English
OS CASREACT 146:62994
GI



I

AB A novel compound, di-Et puerarin-7-yl phosphate I, was synthesized through a simplified Atherton-Todd reaction for the first time. The structure of this compound was elucidated by IR, ESI-MS and NMR. Two conformations of the compound were testified by 2D NMR (HSQC and HMBC) and dynamic NMR. Conformational anal. using chemical calcn. by Gaussian 03 was carried out to obtain two preferred conformations and energy values.
IT 913627-26-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and conformational anal. of di-Et puerarinyl phosphate via simplified Atherton-Todd phosphorylation of puerarin and diethylphosphite)
RN 913627-26-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-[(diethoxyphosphinyl)oxy]-8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

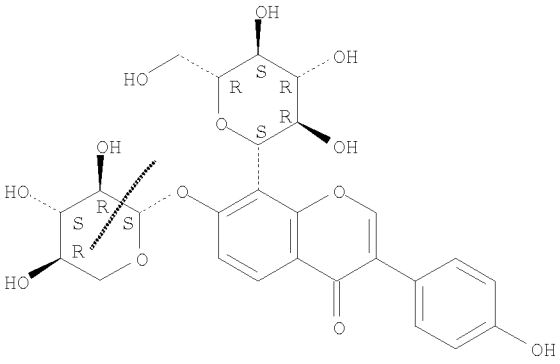


RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 34 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:77420 CAPLUS
DN 145:310513
TI Studies on chemical constituents of flavone from Puerariae Radix
AU Liang, Jianwu
CS Guangdong Light Industry School, Guangzhou, 510308, Peop. Rep. China
SO Guangdong Huagong (2004), 31(6), 1-4
CODEN: GHUAFI; ISSN: 1007-1865
PB Guangdongsheng Zhonghua Gongyeting Xinxi Zhongxin
DT Journal

LA Chinese
AB The chemical constituents of flavone were isolated on polyamide column and determined by multilayer series connection on mass spectrum. Three chemical constitutes were isolated from Puerarin Radix by absolute ethanol, e.g., daidzein 7,4'-diglucoside, 7-xylose puerarin and puerarin. Their structures were fit to those in the document.
IT 303114-83-2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(chemical constituents of flavone from Puerariae Radix)
RN 303114-83-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-7-(β-D-xylopyranosyloxy)- (CA INDEX NAME)

Absolute stereochemistry.

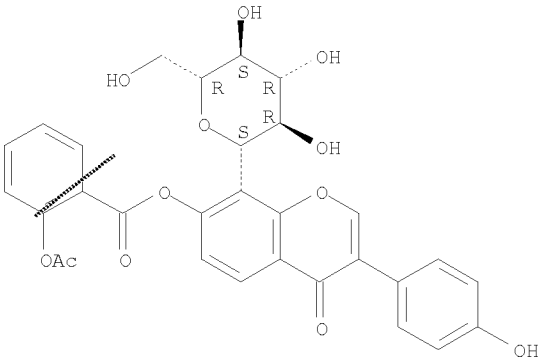


L9 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:53534 CAPLUS
DN 144:129179
TI Preparation of acetylsalicyloylpuerarin derivatives as platelet aggregation inhibitors
IN Lou, Hongxiang; Liu, Lijuan; Fan, Peihong
PA Shandong University, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 19 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1634912	A	20050706	CN 2004-10036070	20041110
CN 1314677	C	20070509		
PRAI CN 2004-10036070		20041110		

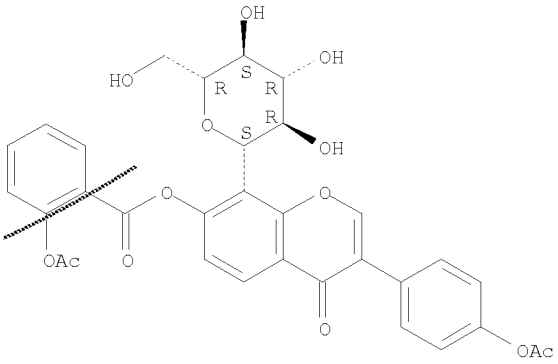
OS CASREACT 144:129179; MARPAT 144:129179
AB Title compds. are prepared prepared by chlorinating aspirin with SOCl2 in pyridine at 60-80° for 2-3 h to obtain salicyloyl chloride; acylating puerarin in alkaline solvent at 20-35° for 1-2 h then refluxing for 2-3 h, and separating on silica gel column. The alkaline solvent is K2CO3-unsatd. THF. 7-Acetylsalicyloylpuerarin was prepared and showed platelet aggregation inhibitor activity superior to that of aspirin.
IT 873192-72-4P 873192-73-5P 873192-74-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and platelet aggregation inhibitor activity of acetylsalicyloylpuerarin derivs.)
RN 873192-72-4 CAPLUS
CN Benzoic acid, 2-(acetyloxy)-, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl ester (CA INDEX NAME)

Absolute stereochemistry.



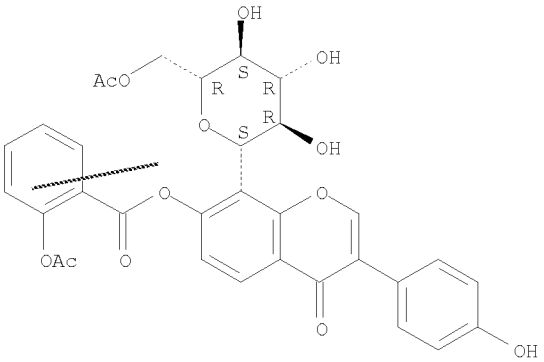
RN 873192-73-5 CAPLUS
CN Benzoic acid, 2-(acetyloxy)-, 3-[4-(acetyloxy)phenyl]-8-β-D-glucopyranosyl-4-oxo-4H-1-benzopyran-7-yl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 873192-74-6 CAPLUS
CN Benzoic acid, 2-(acetyloxy)-, 8-(6-O-acetyl-β-D-glucopyranosyl)-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl ester (CA INDEX NAME)

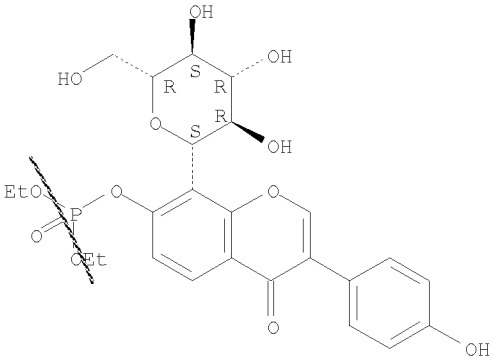
Absolute stereochemistry.



L9 ANSWER 36 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:10174 CAPLUS
DN 145:471276
TI Synthesis and NMR characterization of diethyl puerarin-7-yl phosphate
AU Yuan, Jin-wei; Chen, Xiao-lan; Wang, Mao-tian; Qu, Ling-bo; Zhao, Yu-fen
CS Henan Provincial Key Lab of Bio-Chem. and Organic Chem., Dep. of

Chemistry, Zhengzhou University, Zhengzhou, 45002, Peop. Rep. China
SO Bopuxue Zazhi (2005), 22(4), 409-415
CODEN: BOZAE2; ISSN: 1000-4556
PB Kexue Chubanshe
DT Journal
LA Chinese
OS CASREACT 145:471276
AB Puerarin, an isoflavone compound [i.e., 8-β-D-glucopyranosyl-7-hydroxy-3-(4-hydroxyphenyl)-4H-1-benzopyran-4-one] is the bioactive component of traditional Chinese medicine puerarin lobate (wild). A novel di-Et puerarin-7-yl phosphate was synthesized by the Atherton-Todd reaction with high productive yield. It was found that the compound synthesized has two sets of NMR signals at room temperature, suggesting the existence of two conformational isomers in solution The 1H chemical shifts of the compound were assigned using two-dimensional NMR techniques, including 1H-detected heteronuclear multiple-quantum coherence and 1H-detected multiple-bond heteronuclear multiple-quantum coherence.
IT 913627-26-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and NMR characterization of di-Et puerarin phosphate (hydroxy isoflavone))
RN 913627-26-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-[(diethoxyphosphinyl)oxy]-8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



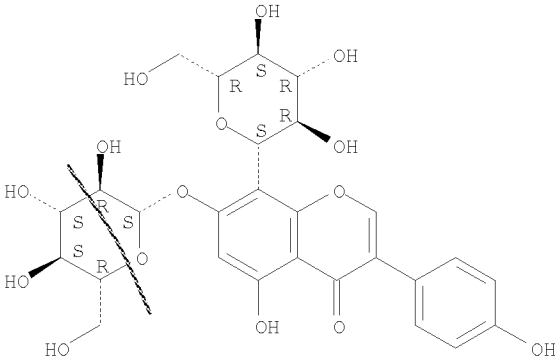
L9 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:997009 CAPLUS
DN 144:208854
TI Profiling isoflavone conjugates in root extracts of lupine species with LC/ESI/MSn systems
AU Kachlicki, Piotr; Marczak, Lukasz; Kerhoas, Lucien; Einhorn, Jacques; Stobiecki, Maciej
CS Institute of Bioorganic Chemistry PAS, Poznan, 61-704, Pol.
SO Journal of Mass Spectrometry (2005), 40(8), 1088-1103
CODEN: JMSPFJ; ISSN: 1076-5174
PB John Wiley & Sons Ltd.
DT Journal
LA English
AB Exts. obtained from roots of three lupine species (Lupinus albus, L. angustifolius, L. luteus) were analyzed using LC/UV and LC/ESI/MSn. The expts. were performed using two mass spectrometric systems, equipped with the triple quadrupole or ion trap analyzers. Thirteen to twenty isomeric isoflavone conjugates were identified in roots of the investigated lupine species. These were di- and monoglycosides of genistein and 2'-hydroxygenistein with different patterns of glycosylation, both at oxygen and carbon atoms; some glycosides were acylated with malonic acid. It was not possible to establish the glycosylation sites of the aglycon only on the basis of the registered mass spectra; however, it was possible to differentiate C- and O-glucosides of isoflavones. Only comparison of retention times with those of standard compds. permitted to indicate the correct glycosylation pattern. In the case of diglycosides, the glycosylation pattern (O-diglucoside or O-glucosylglucoside) was

distinguishable on the basis of the relative intensities of daughter ions in the mass spectra of protonated mol. ions. It was not possible to elucidate the site of malonylation on the sugar moiety from mass spectra, however, protonated mols. [M + H]+ of isoflavone glucosides with different placement of the malonyl group on the sugar ring were recognized in the exts. In addition to the isoflavone glycosides, some flavone or flavonol glycosides were identified in the samples on the basis of collision-induced daughter ion spectra of the aglycon ions. A comparison of results obtained with the triple quadrupole and ion trap analyzers was done in the course of the investigations.

IT 875896-74-5 876054-92-1
RL: NPO (Natural product occurrence); BIOL (Biological study); OCCU (Occurrence)
(profiling isoflavone conjugates in root exts. of lupine species with LC/ESI/MSn systems)

RN 875896-74-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(β-D-glucopyranosyloxy)-5-hydroxy-3-(4-hydroxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

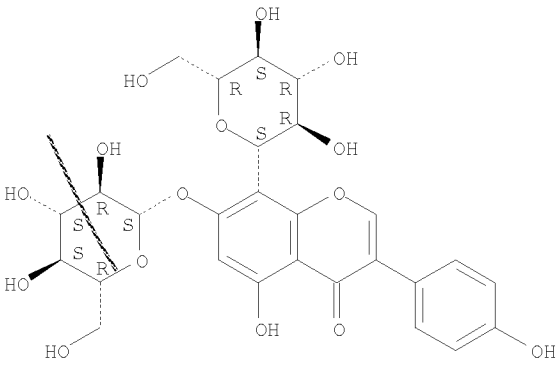


RN 876054-92-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(β-D-glucopyranosyloxy)-5-hydroxy-3-(4-hydroxyphenyl)-, mono(hydrogen propanedioate) (9CI) (CA INDEX NAME)

CM 1

CRN 875896-74-5
CMF C27 H30 O15

Absolute stereochemistry.



CM 2

CRN 141-82-2

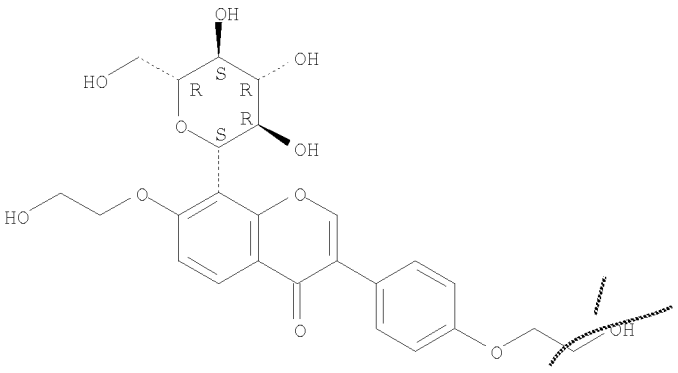
CMF C3 H4 O4

$HO_2C—CH_2—CO_2H$

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:577178 CAPLUS
DN 146:514406
TI Effect of hydroxyethylpuerarin on apoptosis and expression of p53 in focal brain
AU Sun, Ru; Wang, Xin; Wei, Xinbing; Zhang, Xiumei; Sun, Xia; Wang, Ziying
CS School of Medicine, Shandong University, Jinan, Shandong Province, 250012, Peop. Rep. China
SO Zhongguo Shenghua Yaowu Zazhi (2004), 25(6), 336-338
CODEN: ZSYZFP; ISSN: 1005-1678
PB Zhongguo Shenghua Yaowu Zazhi Bianjibu
DT Journal
LA Chinese
AB Hydroxyethylpuerarin (compound N-2035) is modified in structure from puerarin, a kind of isoflavone that was extracted from Chinese traditional medicine. The protective effect of hydroxyethylpuerarin on focal brain ischemia-reperfusion injury in rats was studied. The models of focal brain ischemia reperfusion injury by middle cerebral artery occlusion (MCAO) established in Wister rats were used for HE stain, TUNEL and determination of p53. Hydroxyethylpuerarin can significantly improve the pathol. changes and inhibit apoptosis in hippocampus CA1 area and at the same time decrease the expression of p53. Hydroxyethylpuerarin can relieve brain damage induced by focal ischemia/reperfusion in rats, which may be related to the decrease of the expression of p53 and the inhibition of apoptosis.
IT 240131-05-9, Hydroxyethylpuerarin
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effect of hydroxyethylpuerarin on apoptosis and expression of p53 in focal brain)
RN 240131-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

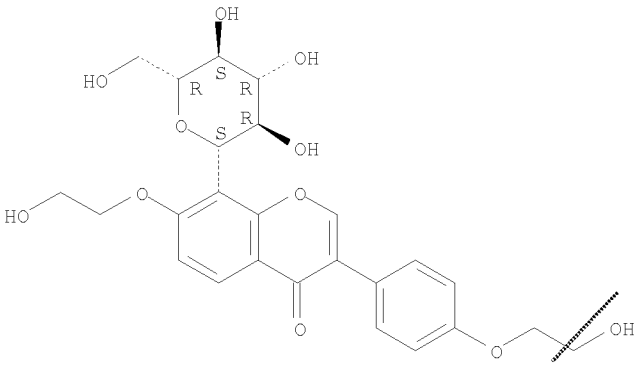
Absolute stereochemistry.



L9 ANSWER 39 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:67880 CAPLUS
DN 142:403975
TI Anti-inflammatory effect of hydroxyethylpuerarin on focal brain ischemia/reperfusion injury in rats
AU Lou, Hai-Yan; Zhang, Xiu-Mei; Wei, Xin-Bing; Wang, Ru-Xia; Sun, Xia
CS Department of Pharmacology, School of Medicine, Shandong University, Jinan, Shandong, 250012, Peop. Rep. China
SO Chinese Journal of Physiology (Taipei, Taiwan) (2004), 47(4), 197-201
CODEN: CJPHDG; ISSN: 0304-4920

PB Chinese Physiological Society
DT Journal
LA English
AB The objective of this study is to investigate the anti-inflammatory effect of hydroxyethylpuerarin on focal brain ischemia injury in rats and to explore its mechanisms of action. After 24 h of reperfusion following 2 h of cerebral ischemia, the infiltration of neutrophils was observed by myeloperoxidase (MPO) activity determination, the expression of intercellular adhesion mol.-1(ICAM-1) was observed by western blot and reverse transcriptase-polymerase chain reaction(RT-PCR) anal., and the nuclear translocation and DNA binding activity of nuclear factor-κB (NF-κB) were observed by western blot and electrophoretic mobility shift assay (EMSA). The results showed that hydroxyethylpuerarin could obviously inhibit the MPO activity and ICAM-1 expression following 2 h of ischemia with 24 h of reperfusion. The nuclear translocation and DNA binding activity were also decreased by hydroxyethylpuerarin treatment. These results suggested that hydroxyethylpuerarin could inhibit neutrophil-mediated inflammatory response after brain ischemia reperfusion in rats. This effect may be mediated by down-regulation of ICAM-1 and NF-κB activity.
IT 240131-05-9
RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hydroxyethylpuerarin effectively reduced myeloperoxidase activity and intercellular adhesion mol.-1 expression following focal cerebral ischemic injury in rat which may be mediated by inhibition of nuclear factor-kB activation)
RN 240131-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:34764 CAPLUS
DN 142:94062
TI Preparation and pharmacological activities of C-glycosylisoflavones having alkylaminoalkoxyl substituents
IN Wang, Lin; Wang, Shengqi; Peng, Tao; Lu, Qiujun; Zhu, Xiaowei; Zhang, Shouguo; Ren, Jianping; Li, Lu; Han, Ling; Jin, Yiguang; Che, Fengsheng
PA Institute of Radiation Medicine, Academy of Military Medical Sciences PL, Peop. Rep. China; Hainan Yangpu New & Special Medicine Co., Ltd.
SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005003146	A1	20050113	WO 2004-CN728	20040702

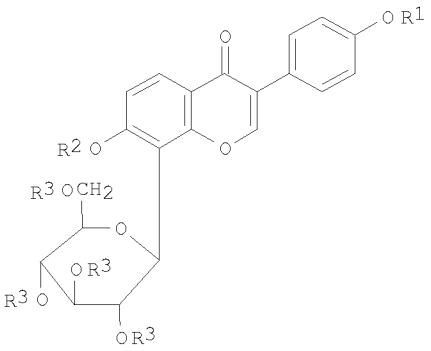
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

CN 1566128	A	20050119	CN 2003-148547	20030703
EP 1647555	A1	20060419	EP 2004-738326	20040702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1809581	A	20060726	CN 2004-80017384	20040702
US 20080293642	A1	20081127	US 2008-563471	20080314
PRAI CN 2003-148547	A	20030703		
WO 2004-CN728	W	20040702		

OS MARPAT 142:94062

GI



I

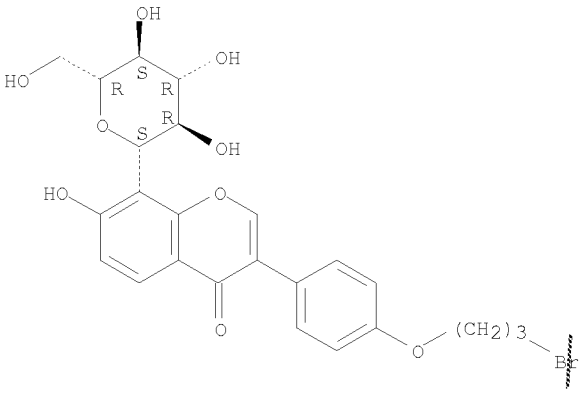
AB Title compds. I (R1, R2 = H, dialkylaminopropyl, dialkylaminobutyl, pyrrolidinoalkyl, piperidinoalkyl, etc.; R3 = H, acyl, etc.), useful for the treatment of various cardiocerebral vascular diseases, hypoxic-ischemia, treatment or prevention of diabetes mellitus and its complication, and chemical poisoning, in particular alcoholism, are prepared Thus, 4'-(3-N-morpholinopropoxy)-7-hydroxy-8-β-D-glucosylisoflavone was prepared and showed antihypoxia activity at 60 mg/kg i.p. in mice.

IT 816423-75-3P 816423-76-4P 816423-77-5P
816423-78-6P 816423-79-7P 816423-80-0P
816423-81-1P 816423-82-2P 816423-83-3P
816423-84-4P 816423-85-5P 816423-86-6P
816423-87-7P 816423-88-8P 816423-89-9P
816423-90-2P 816423-91-3P 816423-92-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and pharmacol. activities of C-glycosylisoflavones having alkylaminoalkoxyl substituent)

RN 816423-75-3 CAPLUS

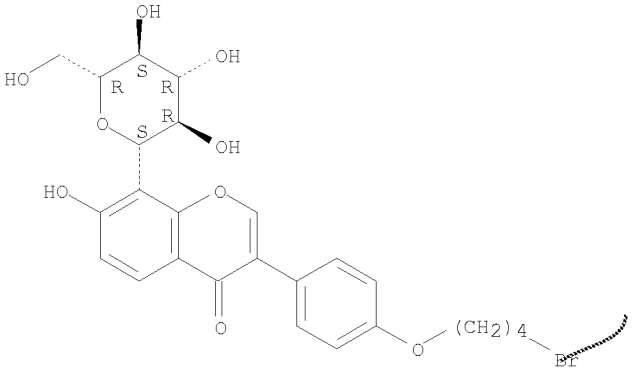
CN 4H-1-Benzopyran-4-one, 3-[4-(3-bromopropoxy)phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



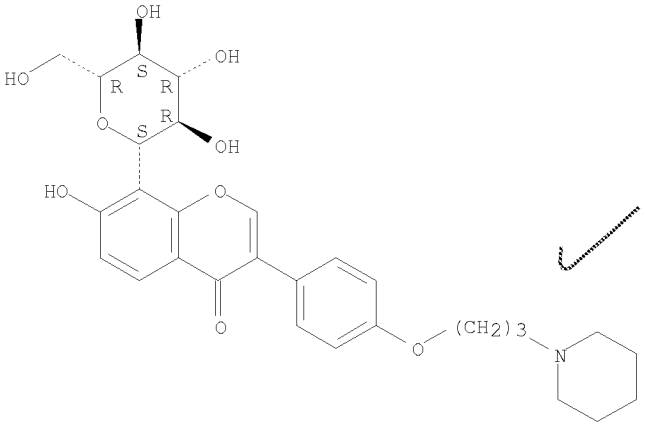
RN 816423-76-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-(4-bromobutoxy)phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



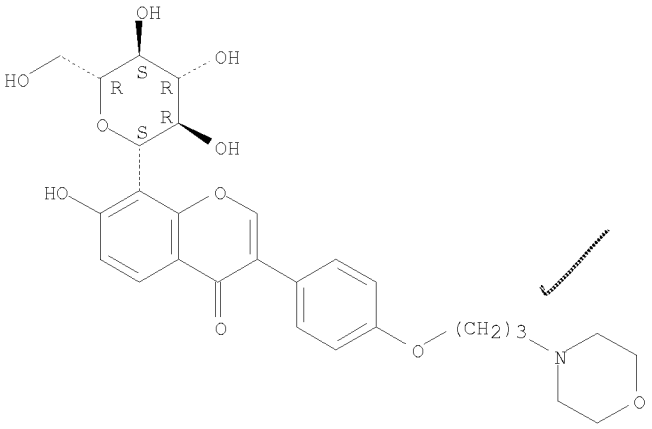
RN 816423-77-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-[3-(1-piperidinyl)propoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



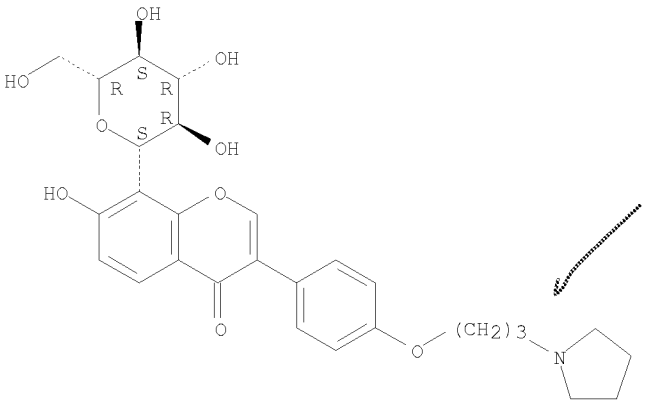
RN 816423-78-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-[3-(4-morpholinyl)propoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



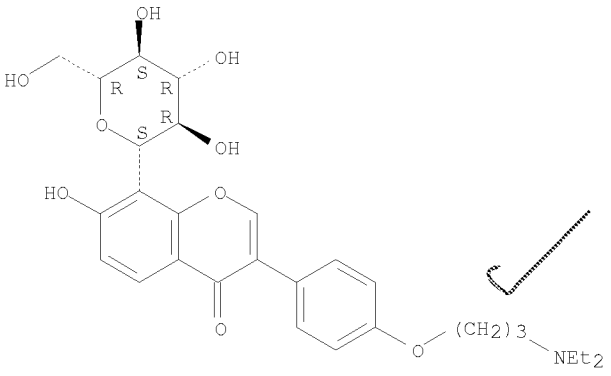
RN 816423-79-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-[3-(1-pyrrolidinyl)propoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



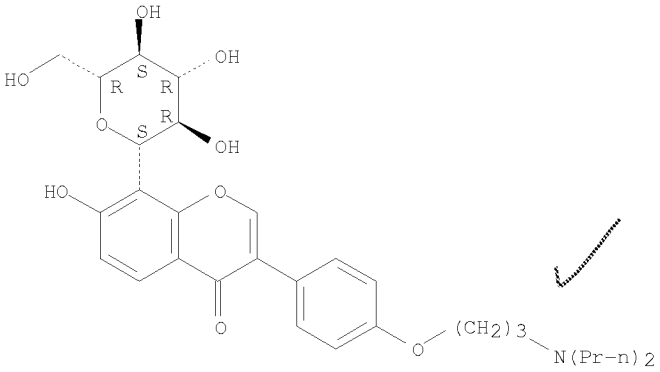
RN 816423-80-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-[3-(diethylamino)propoxy]phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



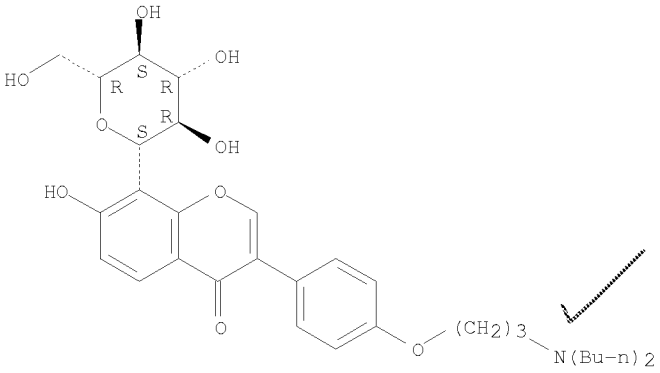
RN 816423-81-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-[3-(dipropylamino)propoxy]phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



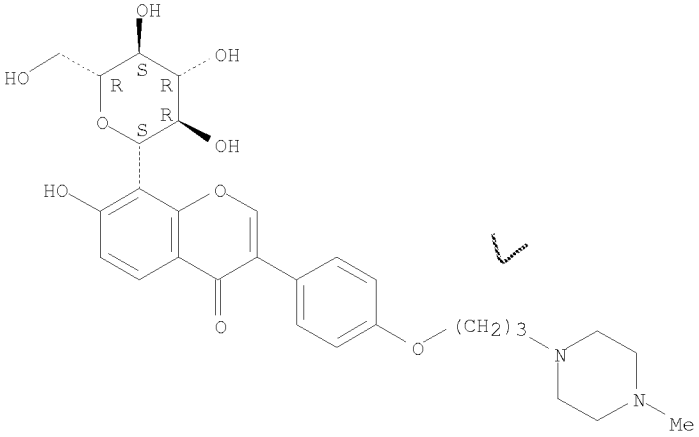
RN 816423-82-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-[3-(dibutylamino)propoxy]phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



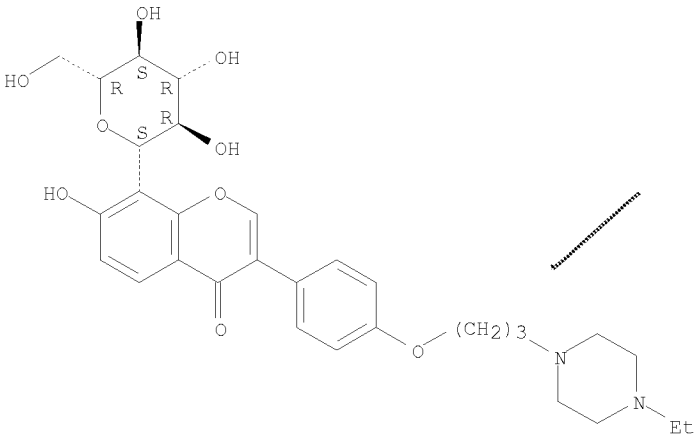
RN 816423-83-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-[3-(4-methyl-1-piperazinyl)propoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



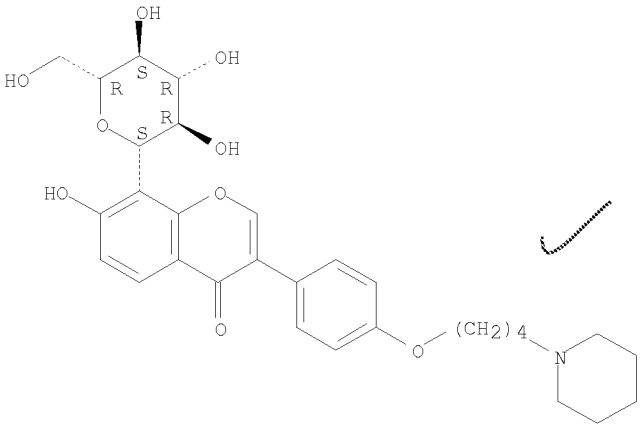
RN 816423-84-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-[3-(4-ethyl-1-piperazinyl)propoxy]phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



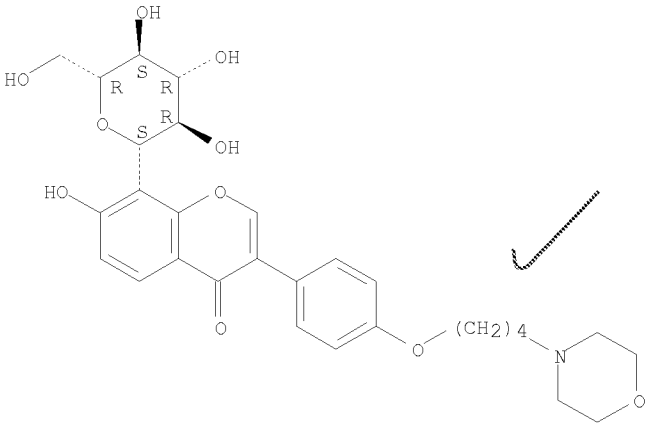
RN 816423-85-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-[4-(1-piperidinyl)butoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



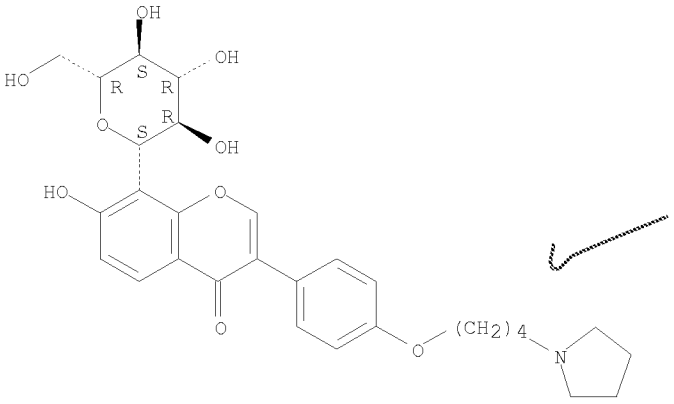
RN 816423-86-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-[4-(4-morpholinyl)butoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



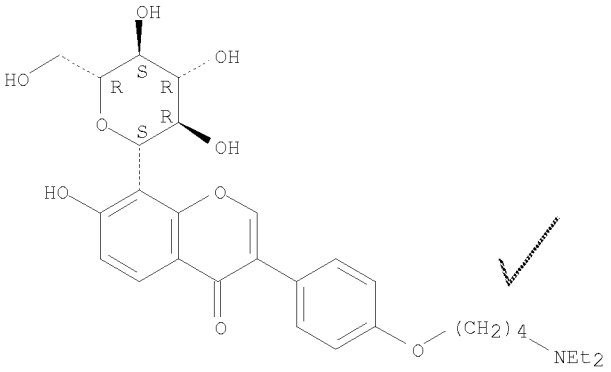
RN 816423-87-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-[4-(1-pyrrolidinyl)butoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 816423-88-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-[4-(diethylamino)butoxy]phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

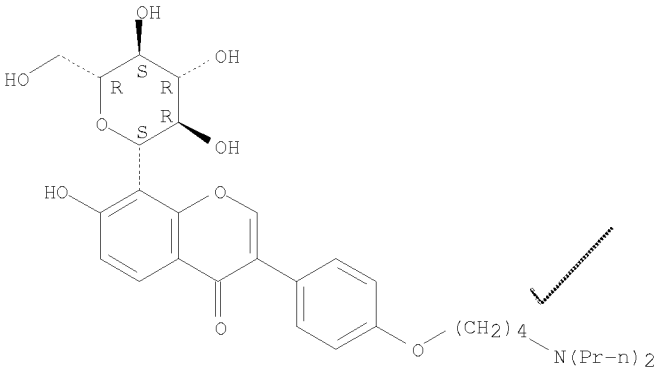
Absolute stereochemistry.



RN 816423-89-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-[4-(dipropylamino)butoxy]phenyl]-8-β-D-

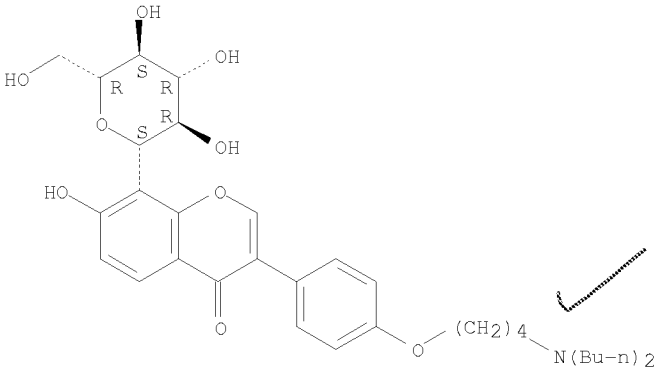
glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



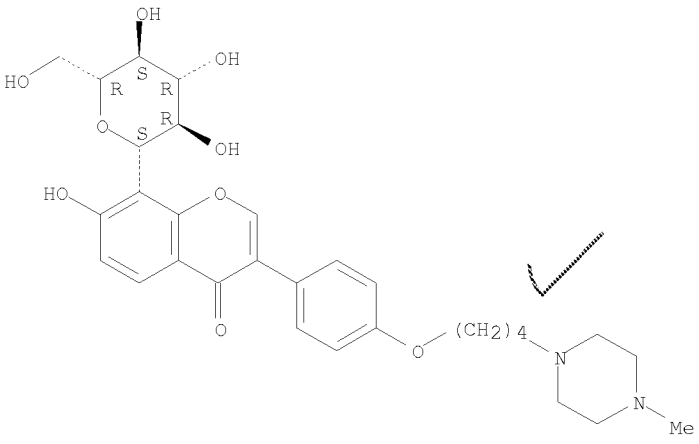
RN 816423-90-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-[4-(dibutylamino)butoxy]phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



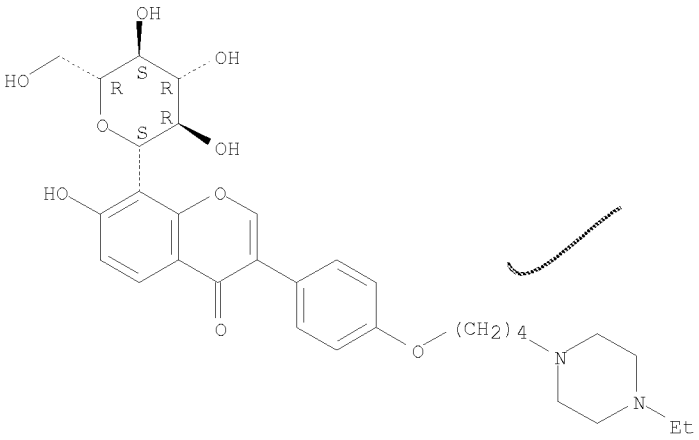
RN 816423-91-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-[4-(4-methyl-1-piperazinyl)butoxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 816423-92-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-[4-[4-(4-ethyl-1-piperazinyl)butoxy]phenyl]-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

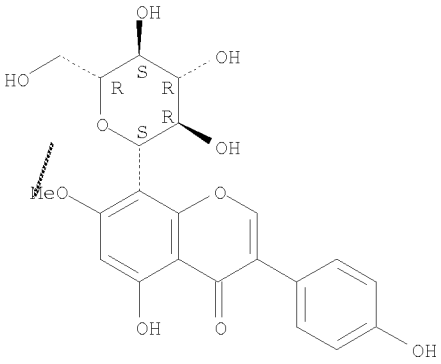
Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 41 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:442029 CAPLUS
DN 142:257695
TI Chemical constituents from the leaves of Dalbergia hainanensis
AU Zhang, Peicheng; Wu, Yan; Yu, Dequan
CS Institute of Materia Medica, Chinese Academy of Medical Science and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SO Zhongguo Zhongyao Zazhi (2003), 28(6), 527-530
CODEN: ZZZAE3; ISSN: 1001-5302
PB Zhongguo Yaoxuehui
DT Journal
LA Chinese
AB The chemical constituents from the leaves of Dalbergia hainanensis were studied. Compds. were isolated by chromatog. techniques on silica gel and polyamide column. Their structures were elucidated by chemical and spectroscopic methods. Thirteen compds. were identified as 8-C-glucosyl-7-methoxy-4',5-dihydroxyisoflavone, 8-C-glucosyl-7,4',5-trihydroxyisoflavone, 2-hydroxy-5-methoxy biochanin A, formononetin , 3,5-dimethoxy-4-hydroxybenzaldehyde, 1-O-β-D-glucopyranosyl-(2S,3S,4R,8Z)-2-[(2R)-2-hydroxyl docosylamino]-8-octadecene-1,3,4-triol, friedelin, taraxerol, 3β-hydroxy-glutin-5-ene , ursolic acid, β-sitosterol, daucosterol, and lupeol. All the compds. were isolated from the plant for the first time.
IT 52448-12-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(constituents from leaves of Dalbergia hainanensis)
RN 52448-12-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5-hydroxy-3-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

Absolute stereochemistry.

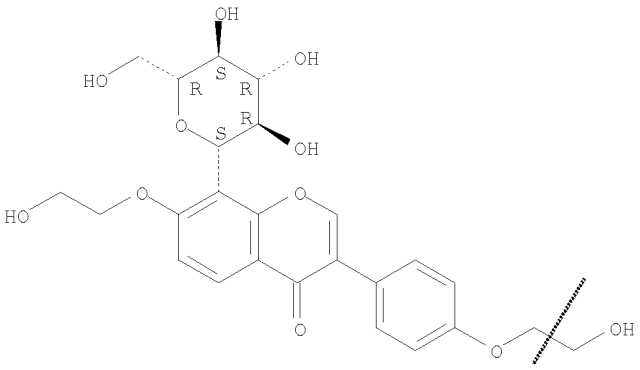


L9 ANSWER 42 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:376414 CAPLUS
DN 140:368689
TI Application of hydroxyethyl-puerarin in preparing the new drug for treating cerebrovascular diseases
IN Zuo, Chunxu; Zhang, Xiumei; Zhong, Ying; Yang, Shangjun; Wang, Ziying; Wang, Ju; Chen, Jianqiang; Li, Anguo; Liu, Jikai
PA Zhenping Pharmaceutical Factory, Shanxi, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1394603	A	20030205	CN 2002-135352	20020809
	CN 1186026	C	20050126		
PRAI	CN 2002-135352		20020809		

AB The invention relates to the application of hydroxyethyl-puerarin in preparing the new medical prepns. for treating cerebrovascular ischemia.
IT 240131-05-9
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(application of hydroxyethyl-puerarin in preparing the new drug for treating cerebrovascular diseases)
RN 240131-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 43 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:20483 CAPLUS
DN 140:71053

TI Compounds useful for the inhibition of mitochondrial aldehyde dehydrogenase (ALDH-2) and modulating alcohol consumption, dependence and abuse

IN Keung, Wing Ming; Vallee, Bert L.; Gao, Guangyao
PA The Endowment for Research in Human Biology, Inc., USA

SO PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004002470	A1	20040108	WO 2003-US20584	20030627
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2491089	A1	20040108	CA 2003-2491089	20030627
AU 2003247844	A1	20040119	AU 2003-247844	20030627
AU 2003247844	B2	20090122		
US 20040068003	A1	20040408	US 2003-609120	20030627
US 7368434	B2	20080506		
EP 1542675	A1	20050622	EP 2003-762244	20030627
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1671373	A	20050921	CN 2003-817905	20030627
JP 2006501180	T	20060112	JP 2004-518118	20030627
NZ 537366	A	20071221	NZ 2003-537366	20030627
MX 2005000122	A	20051214	MX 2005-122	20050103
PRAI US 2002-391907P	P	20020627		
WO 2003-US20584	W	20030627		

OS MARPAT 140:71053

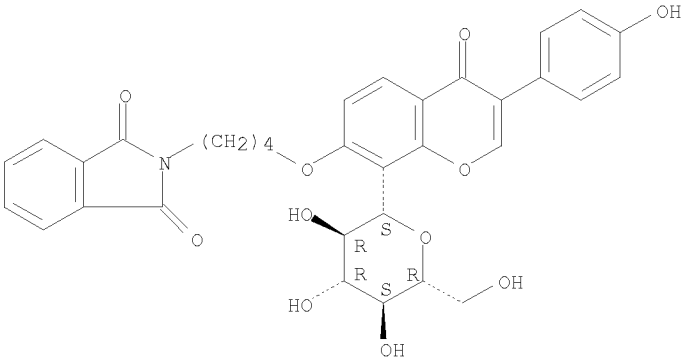
AB The present invention provides novel antidipsotropic compds. The invention further provides methods of inhibiting ALDH-2 using the compds. described herein. Methods for modulating alc. consumption, alc. dependence and/or alc. abuse by administering the compds. of the invention to an individual are also provided. The present invention further provides a rationale for designing addnl. novel antidipsotropic compds. Hexzein, given orally, reduced ethanol intake in hamsters.

IT 640275-77-0P 640275-88-3P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(antidipsotropic compds. useful for inhibition of mitochondrial aldehyde dehydrogenase (ALDH-2) and modulating alc. consumption, dependence and abuse)

RN 640275-77-0 CAPLUS

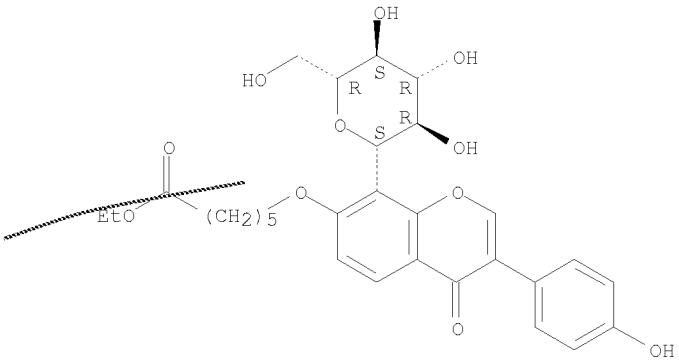
CN 4H-1-Benzopyran-4-one, 7-[4-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)butoxy]-8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 640275-88-3 CAPLUS
CN Hexanoic acid, 6-[[8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]-, ethyl ester (CA INDEX NAME)

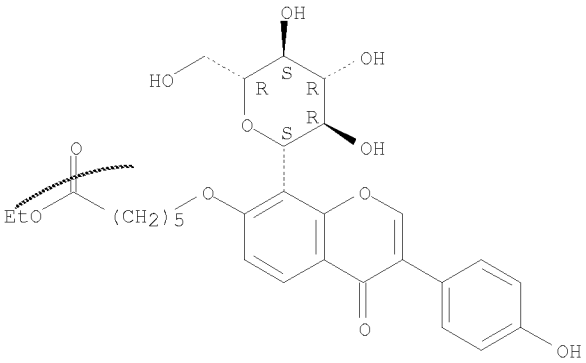
Absolute stereochemistry.



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

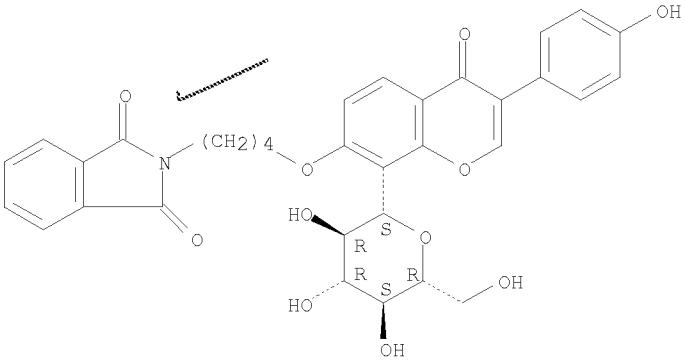
L9 ANSWER 44 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:645702 CAPLUS
DN 140:138710
TI Synthesis of daidzin analogues as potential agents for alcohol abuse
AU Gao, Guang-Yao; Li, Dian-Jun; Keung, Wing Ming
CS Center for Biochemical and Biophysical Science and Medicine and Department of Psychiatry at Massachusetts Mental Health Center, Harvard Medical School, Boston, MA, 02115, USA
SO Bioorganic & Medicinal Chemistry (2003), 11(18), 4069-4081
CODEN: BMECEP; ISSN: 0968-0896
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 140:138710
AB Daidzin, the active principle of an herbal remedy for ' alc. addiction', has been shown to reduce alc. consumption in all laboratory animals tested to date. Correlation studies using structural analogs of daidzin suggests that it acts by raising the monoamine oxidase (MAO)/mitochondrial aldehyde dehydrogenase (ALDH-2) activity ratio (J. Med. Chemical 2000, 43, 4169). Structure-activity relationship (SAR) studies on the 7-O-substituted analogs of daidzin have revealed structural features important for ALDH-2 and MAO inhibition (J. Med. Chemical 2001, 44, 3320). We here evaluated effects of substitutions at 2, 5, 6, 8, 3' and 4' positions of daidzin on its potencies for ALDH-2 and MAO inhibition. Results show that analogs with 4'-substituents that are small, polar and with hydrogen bonding capacities are most potent ALDH-2 inhibitors, whereas those that are non-polar and with electron withdrawing capacities are potent MAO inhibitors. Analogs with a 5-OH group are less potent ALDH-2 inhibitors but are more potent MAO inhibitors. All the 2-, 6-, 8- and 3'-substituted analogs tested so far do not inhibit ALDH-2 and/or have decreased potencies for MAO inhibition. This, together with the results obtained from previous studies, suggests that a potent antidipsotropic analog would be a 4',7-disubstituted isoflavone. The 4'-substituent should be small, polar, and with hydrogen bonding capacities such as, -OH and -NH2; whereas the 7-substituent should be a straight-chain alkyl with a terminal polar function such as -(CH2)n-OH with 2≤n ≤6, -(CH2)n-COOH with 5≤n ≤10, or -(CH2)n-NH2 with n ≥4.
IT 640275-88-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and structure-activity relationship of daidzin analogs as potential agents for alc. abuse)
RN 640275-88-3 CAPLUS
CN Hexanoic acid, 6-[[8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl]oxy]-, ethyl ester (CA INDEX NAME)

Absolute stereochemistry.



IT 640275-77-0
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synthesis and structure-activity relationship of daidzin analogs as potential agents for alc. abuse)
RN 640275-77-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-[4-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)butoxy]-8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)

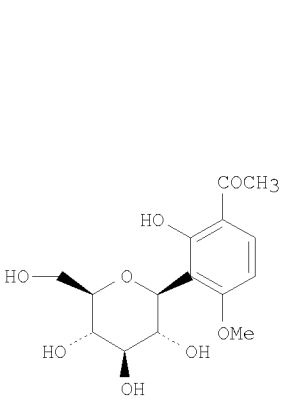
Absolute stereochemistry.



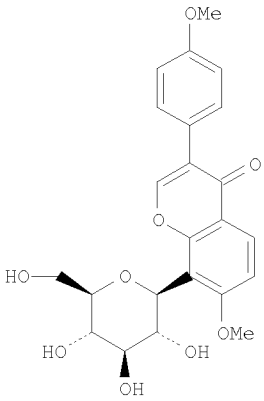
compound 8e on page 4073

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 45 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:627030 CAPLUS
DN 139:323705
TI Total synthesis of puerarin, an isoflavone C-glycoside
AU Lee, David Y. W.; Zhang, Wu-Yan; Karnati, Vishnu Vardhan R.
CS Harvard Medical School, Bioorganic and Natural Products Laboratory, McLean Hospital, Belmont, MA, 02478, USA
SO Tetrahedron Letters (2003), 44(36), 6857-6859
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 139:323705
GI



I



II

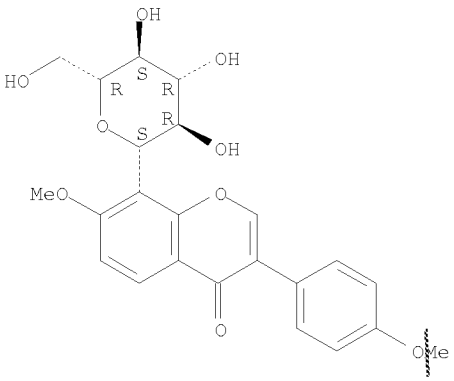
AB We completed the first total synthesis of puerarin, an isoflavone C-glycoside. The key intermediate, β-D-glucopyranosyl-2,6-dimethoxybenzene, was obtained by coupling of 2,6-dimethoxyphenyl lithium with perbenzyl glycopyranolactone in 56% yield. Condensation of I with p-methoxybenzaldehyde gave the chalcone. The acetyl protected chalcone was cyclized with Tl(NO3)3 to yield II. Demethylation of II was accomplished by refluxing with TMSI in CH3CN to give puerarin.

IT 69655-50-1P 69655-53-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of puerarin, an isoflavone C-glycoside using β-D-glucopyranosyl-2,6-dimethoxybenzene as the key chiral synthon)

RN 69655-50-1 CAPLUS

CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-methoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

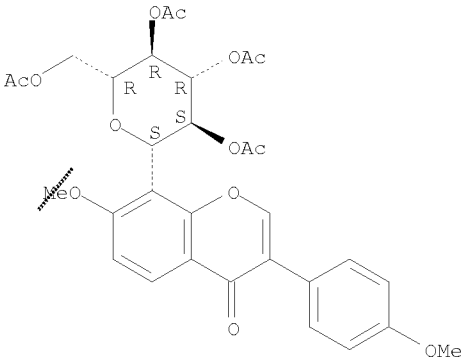
Absolute stereochemistry.



RN 69655-53-4 CAPLUS

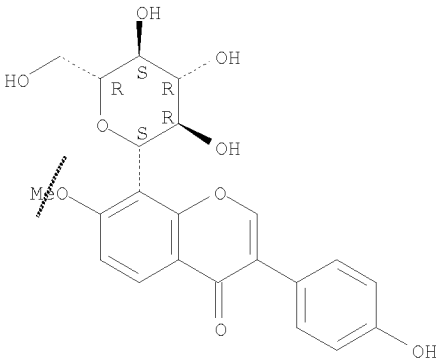
CN 4H-1-Benzopyran-4-one, 7-methoxy-3-(4-methoxyphenyl)-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



IT 615275-47-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of puerarin, an isoflavone C-glycoside using β-D-glucopyranosyl-2,6-dimethoxybenzene as the key chiral synthon)
RN 615275-47-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

Absolute stereochemistry.

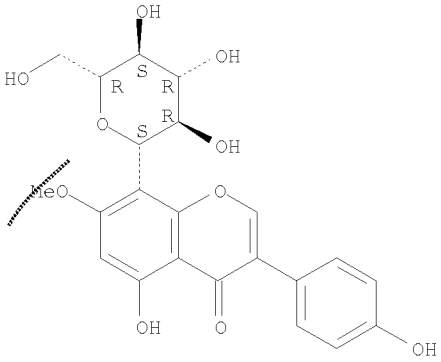


RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:599432 CAPLUS
DN 139:381034
TI Conformational study on 8-C-glucosyl-prunetin by dynamic NMR spectroscopy
AU Zhang, Pei-Cheng; Wang, Ying-Hong; Liu, Xin; Yi, Xiang; Chen, Ruo-Yun; Yu, De-Quan
CS Institute of Material Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SO Huaxue Xuebao (2003), 61(7), 1157-1160
CODEN: HHHPA4; ISSN: 0567-7351
PB Kexue Chubanshe
DT Journal
LA Chinese
OS CASREACT 139:381034
AB By means of variable temperature dynamic NMR spectra, conformation of 8-C-glucosyl prunetin, isolated from the leaves of Dalbergia hainanensis (Leguminosae), and other 8-C-glucosyl flavones was studied. The restricted rotation around the 1''-C(sp3)-8-C(sp2) bond in the C-glucosides isoflavonoid results in two main conformers (syn and anti). With the help of Mol. Mechanics (MM) calcn., the preferred conformation A of 8-C-glucosyl prunetin has 1''-H gauche to the 7-OCH3. The barrier to rotation was 75.66 kJ/mol. This result agrees with the calculated value 71.48 kJ/mol of free energy of activation for the interconversion between the conformers.

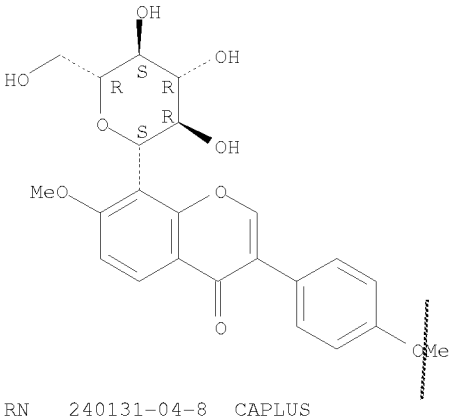
IT 52448-12-1P
RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation)
(conformational study on 8-C-glucosyl-prunetin by dynamic NMR spectroscopy)
RN 52448-12-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5-hydroxy-3-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

Absolute stereochemistry.



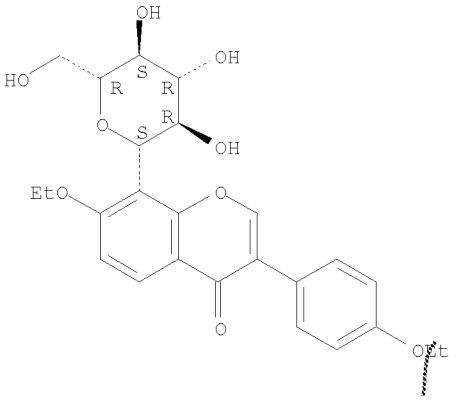
IT 69655-50-1P 240131-04-8P 623900-91-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(conformational study on 8-C-glucosyl-prunetin by dynamic NMR spectroscopy)
RN 69655-50-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-methoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



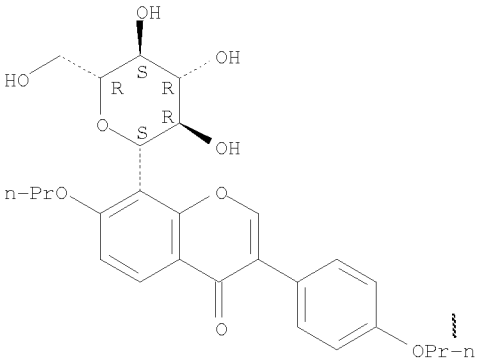
RN 240131-04-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-ethoxy-3-(4-ethoxyphenyl)-8-β-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



RN 623900-91-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-propoxy-3-(4-propoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 47 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:438997 CAPLUS
DN 139:148617
TI Profiling and Quantification of Isoflavonoids in Kudzu Dietary Supplements by High-Performance Liquid Chromatography and Electrospray Ionization Tandem Mass Spectrometry
AU Prasain, Jeevan K.; Jones, Kenneth; Kirk, Marion; Wilson, Landon; Smith-Johnson, Michelle; Weaver, Connie; Barnes, Stephen
CS Department of Pharmacology and Toxicology, Purdue-UAB Botanicals Center for Age-Related Disease and Comprehensive Cancer Center Mass Spectrometry Shared Facility, University of Alabama at Birmingham, Birmingham, AL, 35294, USA
SO Journal of Agricultural and Food Chemistry (2003), 51(15), 4213-4218
CODEN: JAFCAU; ISSN: 0021-8561
PB American Chemical Society
DT Journal
LA English
AB The kudzu vine (Pueraria sp.) is a rich source of isoflavones. Dietary supplements based on kudzu have become com. available. In the present study, LC coupled with neg. and pos. electrospray ionization tandem mass spectrometry (MS/MS) and diode array detection (DAD) was used for the detection and characterization of isoflavonoids in kudzu dietary supplements (KDS). The MS/MS spectrum of the protonated ion of puerarin showed characteristic product ions of the C-glycoside unit itself, whereas daidzin generated an abundant Y+0 aglycon ion in its product ion spectrum. A base peak due to the loss of 120 Da [M + H - 120]+ is the diagnostic ion for C-glycosides. Neutral loss scans allowed for the detection of other C- and O-glycosides in the methanolic extract of KDS, and their structures have been proposed. The concentration of isoflavonoids in the methanolic extract of com. available KDS was quantified by using DAD-HPLC. Puerarin, rather

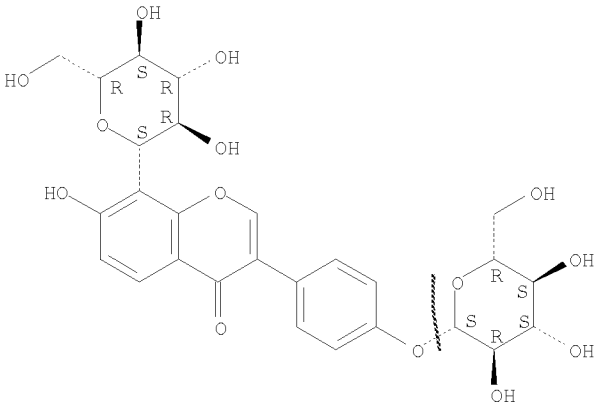
than daidzin, was the most abundant component (8.44-30.60 mg/capsule) in com. available KDS.

IT 117047-08-2
RL: ANT (Analyte); ANST (Analytical study)
(profiling and quantification of isoflavonoids in kudzu dietary supplements by HPLC and electrospray ionization tandem MS)

RN 117047-08-2 CAPLUS

CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:609154 CAPLUS

DN 138:238346

TI Study on the preparation of 7,4'-di-O-hydroxyethylpuerarin

AU Hou, Dianjie; Wang, Jianwu; Sun, Jianlong

CS College of Chemistry and Chemical Engineering, Shandong University, Jinan, 250100, Peop. Rep. China

SO Zhongguo Yaowu Huaxue Zazhi (2002), 12(2), 103-104
CODEN: ZYHZEF; ISSN: 1005-0108

PB Zhongguo Yaowu Huaxue Zazhi Bianjibu

DT Journal

LA Chinese

OS CASREACT 138:238346

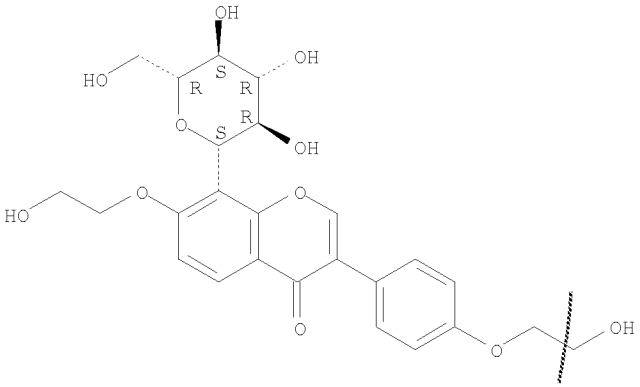
AB 7,4'-Di-O-hydroxyethylpuerarin was prepared by two different methods such as hydroxyethylation with 2-chloroethanol or 2- bromoethanol and oxirane method. The hydroxyethylation of puerarin with ethylene oxide was the more practical and convenient method.

IT 240131-05-9P, 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]-
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of 7,4'-di-O-hydroxyethylpuerarin by hydroxyethylation of puerarin and with oxirane)

RN 240131-05-9 CAPLUS

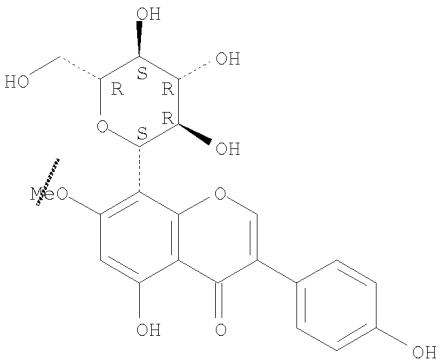
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 49 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2002:560124 CAPLUS
DN 137:337496
TI Conformational study of 8-C-glucosyl-prunetin by dynamic NMR spectroscopy
AU Zhang, Pei Cheng; Wang, Ying Hong; Liu, Xin; Yi, Xiang; Chen, Ruo Yun; Yu, De Quan
CS Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, 100050, Peop. Rep. China
SO Chinese Chemical Letters (2002), 13(7), 645-648
CODEN: CCLEE7; ISSN: 1001-8417
PB Chinese Chemical Society
DT Journal
LA English
AB By variable temperature NMR spectra, conformation of 8-C-glucosyl prunetin, isolated from the leaves of Dalbergia hainanensis (Leguminosae), was studied. The restricted rotation around the C (sp3)-C (sp2) bond in the C-glucosides isoflavonoid results in two main conformers (syn and anti). With the help of MM calcn., the preferred conformation A has H-1'' gauche to the 7-OMe. The barrier to rotation was 18.1 kcal/mol. This result agrees with the calculated value 16.2 kcal/mol of free energy of activation for the interconversion between the conformers.
IT 52448-12-1, 8-C-Glucosyl prunetin
RL: PRP (Properties)
(conformational study of 8-C-glucosyl-prunetin by dynamic NMR spectroscopy)
RN 52448-12-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5-hydroxy-3-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

Absolute stereochemistry.

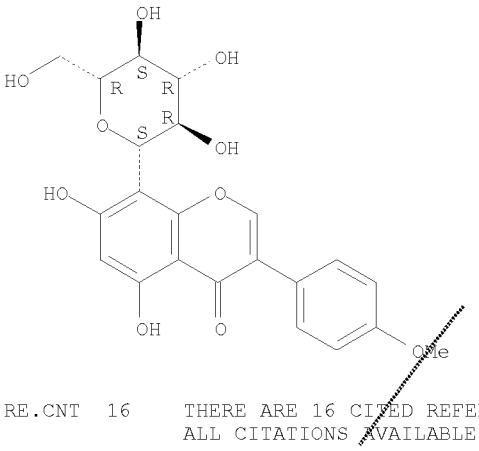


RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 50 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:251181 CAPLUS

DN 135:16768
TI Isoflavonoids and alkaloids from Spartidium saharae
AU Abdel-Halim, Osama B.; Abdel-Fattah, Hosny A.; Halaweish, Fathi T.; Halim, Ahmed F.
CS Dept. of Chemistry, South Dakota State Univ., SD, USA
SO Natural Product Sciences (2000), 6(4), 189-192
CODEN: NPSCFB; ISSN: 1226-3907
PB Korean Society of Pharmacognosy
DT Journal
LA English
AB A new isoflavone, (+)-4'-O-methyl-8-C-β-D-glucopyranosylgenistein, was isolated from the aerial parts of Spartidium saharae together with the known isoflavone (+)-8-C-β-D-glucopyranosylgenistein as well as the dipiperidine alkaloids (+)-ammodendrine and (+)-N-acetylhystrine. Details of their structure elucidation are based on chemical and spectroscopic methods. N-formylammodendrine was detected by GC-MS. The potential chemotaxonomic value of the alkaloid content is discussed. Cytotoxic activity has been determined for both alc. extract and isolated compds.
IT 342655-86-1P
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(isolation from Spartidium saharae and structural elucidation of)
RN 342655-86-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5,7-dihydroxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

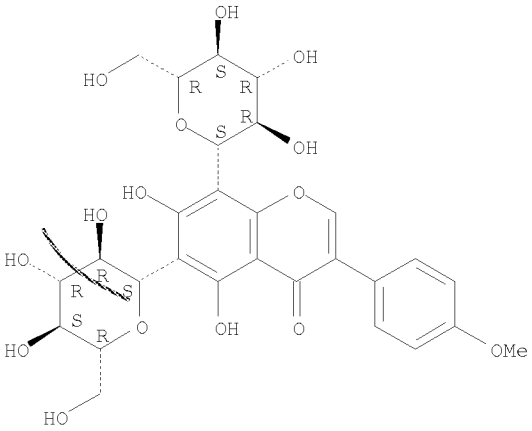


RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 51 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:87754 CAPLUS
DN 134:307892
TI Isoflavones and a saponin from Crotalaria thebaica (Del.) DC growing in Egypt
AU Ibraheim, Z. Z.; Khalifa, A. A.
CS Department of Pharmacognosy, Faculty of Pharmacy, Assiut University, Assiut, Egypt
SO Bulletin of Pharmaceutical Sciences, Assiut University (2000), 23(2), 177-186
CODEN: BPAUEC; ISSN: 1110-0052
PB Assiut University Press
DT Journal
LA English
AB Further investigation of the dried aerial parts of Crotalaria thebaica (Del.) DC. led to the isolation of two isoflavone aglycons; Biochanin A and Genistein, an isoflavone-O-glucoside; Biochanin A-7-O-β-glucoside, 2 isoflavone C-glycosides identified as 8-C-glucosyl genistein and 6,8-di-C-glucosyl biochanin A and a saponin glycoside identified as robinioside C Me ester. The identification of the isolated compds. was based on chemical and spectral studies.
IT 335139-12-3, 6,8-Di-C-glucosyl biochanin A
RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

BIOL (Biological study); OCCU (Occurrence)
(isoflavones and a saponin from Crotalaria thebaica)
RN 335139-12-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 6,8-di-β-D-glucopyranosyl-5,7-dihydroxy-3-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

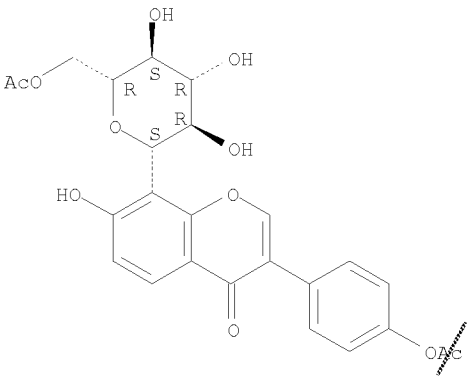
L9 ANSWER 52 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:31340 CAPLUS
DN 134:95502
TI Compositions and methods for treating or preventing osteoporosis
IN Prince, Richard Lewis; Min, Xu
PA University of Western Australia, Australia; Guangzhou University of Traditional Chinese Medicine
SO PCT Int. Appl., 93 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001001996	A1	20010111	WO 2000-AU737	20000629
WO 2001001996	A9	20020912		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

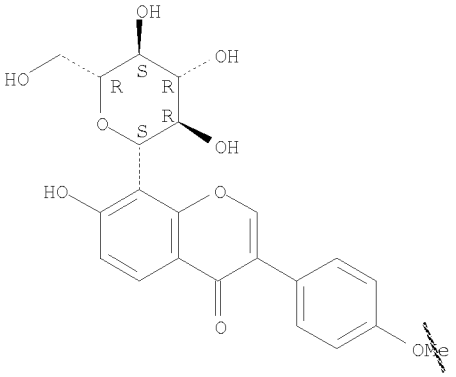
PRAI AU 1999-1273 A 19990629
AB The invention relates to a therapeutic composition and method for treating osteoporosis and other calcium, and/or estrogen related disorders. Examples are given for treating osteoporosis with exts. of plants such as Epimedium koreanum, Salvia miltiorrhiza, Asragalus membranaceus, Pueraria thomsonii, and Psoralea coryliofolia.
IT 24562-39-8, Puerarin diacetate 92117-94-7, 4'-Methoxypuerarin
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(herb medicine exts. for treating or preventing osteoporosis)
RN 24562-39-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-(6-O-acetyl-β-D-glucopyranosyl)-3-[4-(acetyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



RN 92117-94-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

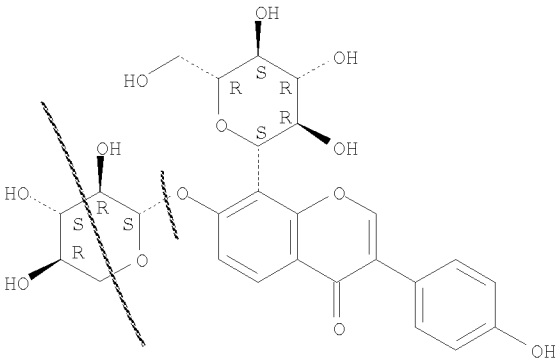
L9 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2000:761931 CAPLUS
DN 133:325492
TI Breast-enlarging agent containing Pueraria root products
IN Hirose, Katsutoshi; Katayama, Masato; Hirata, Naonori
PA Kobe Tennenbutsu Kagaku K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000302667	A	20001031	JP 1999-115773	19990423
PRAI	JP 1999-115773		19990423		

AB The invention relates to a breast-enlarging agent containing Pueraria root or its product, especially Pueraria lobata or Pueraria thomsonii, containing isoflavones. A powder of Puerariae Radix root was combined with vaseline to obtain an ointment. The agent may further use for treatment and prevention of menopausal syndrome, skin-whitening, or hair growth-stimulation.
IT 303114-83-2
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(breast-enlarging agent containing Pueraria root products)
RN 303114-83-2 CAPLUS

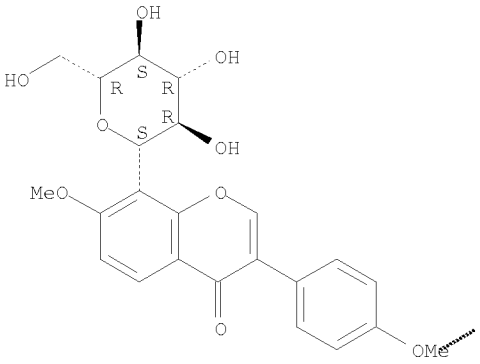
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-7-(β-D-xylopyranosyloxy)- (CA INDEX NAME)

Absolute stereochemistry.



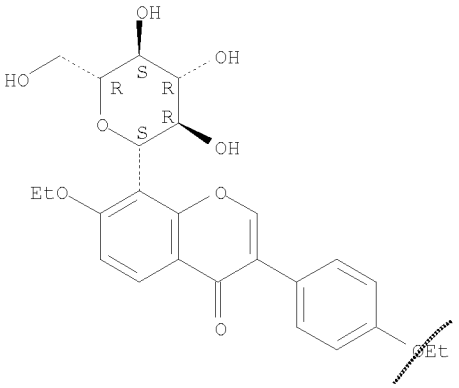
L9 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1999:382906 CAPLUS
DN 131:179773
TI Improvement of ocular blood flow and retinal functions with puerarin analogs
AU Xuan, Bo; Zhou, Yue-Hua; Yang, Rua-Lin; Li, Na; Min, Zhi-Da; Chiou, George C. Y.
CS Institute of Ocular Pharmacology and Department of Medical Pharmacology and Toxicology, Texas A&M Health Science Center, College of Medicine, College Station, TX, USA
SO Journal of Ocular Pharmacology and Therapeutics (1999), 15(3), 207-216
CODEN: JOPTFU; ISSN: 1080-7683
PB Mary Ann Liebert, Inc.
DT Journal
LA English
AB Ischemic retinopathy and, particularly, age-related macular degeneration (AMD) are difficult eye diseases to treat. Since the etiol. of these diseases is inadequate blood circulation in the retina and choroid, drugs which can improve blood circulation to these tissues should be beneficial to these diseases. Since fovea is a vascular, AMD is closely related to choroidal vascular abnormalities, and drugs which show strong effects to increase choroidal blood flow would be particularly useful. Puerarin and all its derivs., except ET (puerarin disubstituted with -CH2CH2OH), showed marked increase of choroidal blood flow at various time periods. Even ET showed a tendency to increase choroidal blood flow, though it was not statistically significant. As for b-wave recovery, all puerarin analogs showed strong recovery of retinal function after ischemic insult for 30 min. These results indicate that puerarin analogs could be used for the treatment of ischemic retinopathy, and AMD in particular.
IT 69655-50-1 240131-04-8 240131-05-9
240131-07-1
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(improvement of ocular blood flow and retinal functions with puerarin analogs)
RN 69655-50-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-methoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



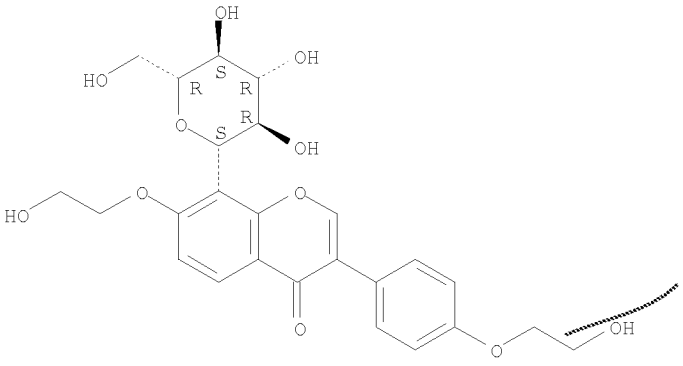
RN 240131-04-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-ethoxy-3-(4-ethoxyphenyl)-8-β-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



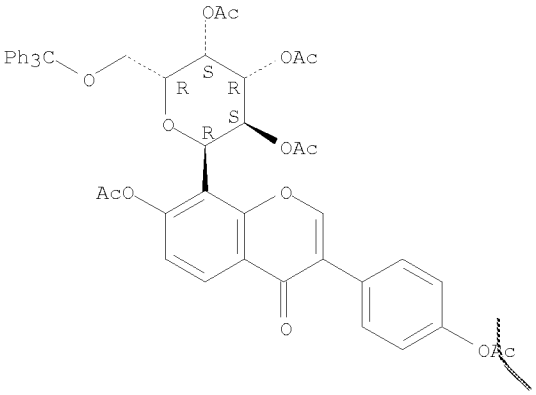
RN 240131-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



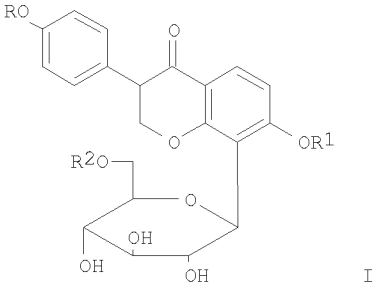
RN 240131-07-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-[2,3,4-tri-O-acetyl-6-O-(triphenylmethyl)-α-D-galactopyranosyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 55 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1999:353528 CAPLUS
DN 131:199898
TI Preparation and bioactivity of puerarin derivatives
AU Yang, Ruolin; Li, Na; Bo, Xuan; Chiou, Geroge C. Y.; Min, Zhida
CS Department of Natural Pharmaceutical Chemistry, China Pharmaceutical University, Nanjing, 210009, Peop. Rep. China
SO Zhongguo Yaoke Daxue Xuebao (1999), 30(2), 81-85
CODEN: ZHYXE9; ISSN: 1000-5048
PB Zhongguo Yaoke Daxue
DT Journal
LA Chinese
GI

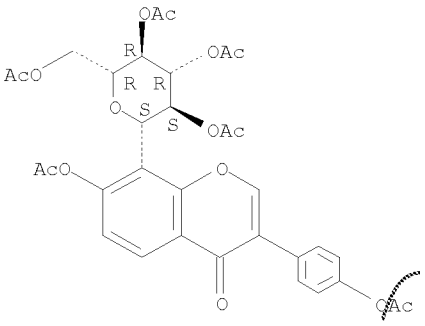


I

AB Title compds. I (R = CH3, CH3CH2, H, HOCH2CH2; R1 = CH3, CH3CH2, CH(CH3)2, CH2CO2CH2CH3, CH2OCH3, CH2CH2OH, H; R2 = H, COC6H5, C(C6H5)3) were prepared from puerarin (active component in Pueraria lobata (Willd.) Ohwi) in enhancing bioactivities. The new derivs. were named as 7.4'-di-O-Et puerarin (G2), 4'-O-Et puerarin (G3), 4'-O-iso-Pr puerarin (G4), 4'-O-ethoxycarbonylmethylene puerarin (G5), 4'-O-methoxymethylene puerarin (G6), 7, 4'-di-O-hydroxyethyl puerarin (G7), 6'-O-benzoxy puerarin (G8) and 6" tribenzylmethyl puerarin (G9). The two known derivs. were 7.4'-di-O-Me puerarin (G1) and hexa-O-acetyl puerarin (G10). Effects of G9 and G10 on the blood flow in the choroid, retina, ciliary body and iris of New Zealand rabbit were studies and their effects were better than those of puerarin.
IT 2889-07-8P 69655-50-1P 240131-04-8P
240131-05-9P 241824-63-5P 241824-64-6P
241824-65-7P 241824-66-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bioactivity of puerarin derivs.)
RN 2889-07-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-

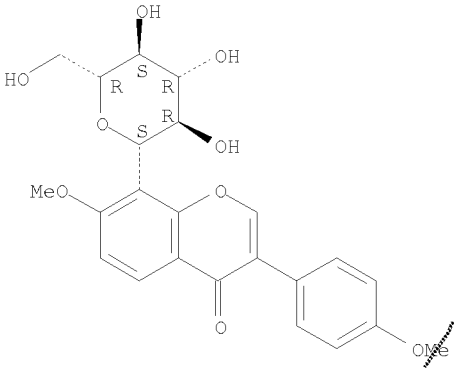
tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



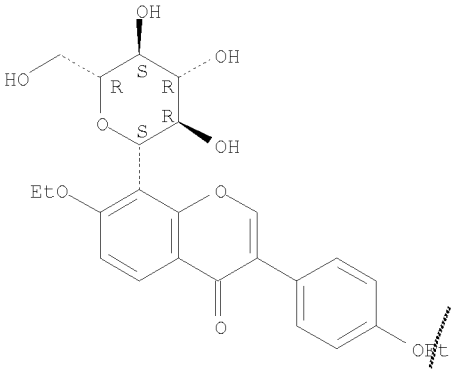
RN 69655-50-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-methoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



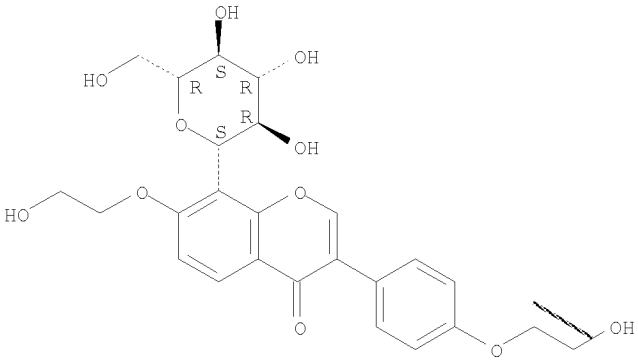
RN 240131-04-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-ethoxy-3-(4-ethoxyphenyl)-8-β-D-glucopyranosyl- (CA INDEX NAME)

Absolute stereochemistry.



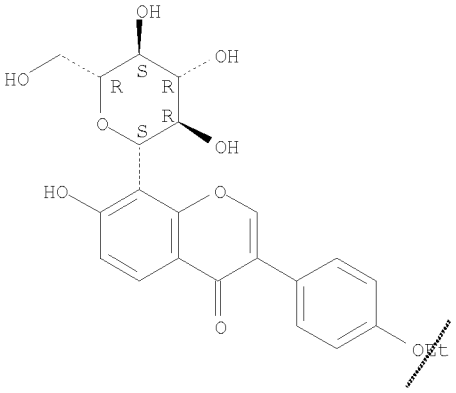
RN 240131-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-(2-hydroxyethoxy)-3-[4-(2-hydroxyethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



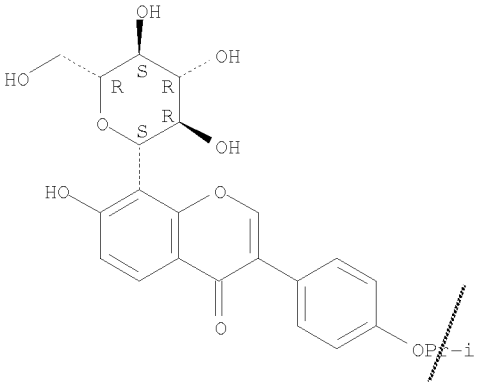
RN 241824-63-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-(4-ethoxyphenyl)-8-β-D-glucopyranosyl-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



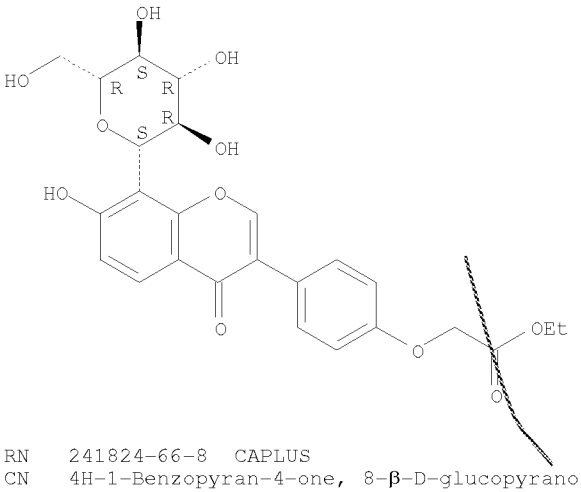
RN 241824-64-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-(1-methylethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



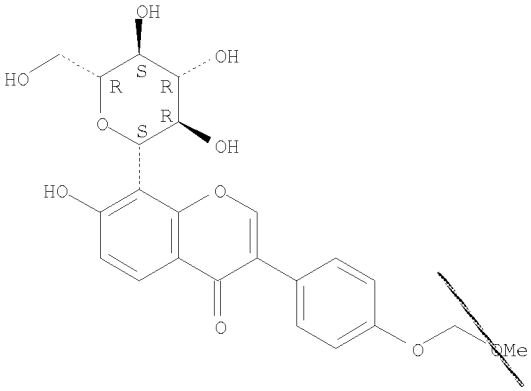
RN 241824-65-7 CAPLUS
CN Acetic acid, [4-(8-β-D-glucopyranosyl-7-hydroxy-4-oxo-4H-1-benzopyran-3-yl)phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



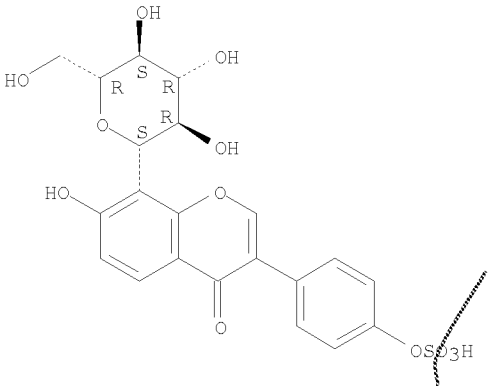
RN 241824-66-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-(methoxymethoxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



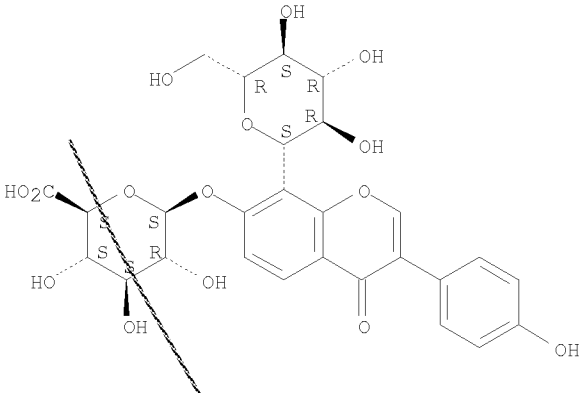
L9 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1999:30508 CAPLUS
DN 130:246227
TI Urinary and biliary metabolites of daidzin, daidzein and puerarin in rats
AU Yasuda, Takaaki; Ohsawa, Keisuke
CS Tohoku College of Pharmacy, Miyagi, 981, Japan
SO International Congress Series (1998), 1157(Towards Natural Medicine Research in the 21st Century), 273-283
CODEN: EXMDA4; ISSN: 0531-5131
PB Elsevier Science B.V.
DT Journal
LA English
AB In this study the urinary and biliary metabolites (M1-M7) of orally administered daidzin, daidzein and puerarin (major ingredients of the roots of Pueraria lobata) were isolated from rats and their structures were determined Total cumulative amts. of the metabolites excreted in the urine during 48 h and in the bile during 36 h after oral administration of daidzin, daidzein and puerarin were estimated resp.
IT 163128-95-8 163128-96-9
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(urinary and biliary metabolites of daidzin, daidzein and puerarin in rats)
RN 163128-95-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-(sulfooxy)phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 163128-96-9 CAPLUS
CN β-D-Glucopyranosiduronic acid, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 57 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1998:697258 CAPLUS
DN 130:85991
TI Identification of isoflavones in the roots of Pueraria lobata
AU Rong, Haojing; Stevens, Jan F.; Deinzer, Max L.; De Cooman, Luc; De Keukeleire, Denis
CS Faculty Pharmaceutical Sciences, University Gent, Ghent, B-9000, Belg.
SO Planta Medica (1998), 64(7), 620-627
CODEN: PLMEAA; ISSN: 0032-0943
PB Georg Thieme Verlag
DT Journal
LA English
AB The isoflavones of the roots of P. lobata (Puerariae Radix) were investigated by HPLC coupled to photodiode array (PDA) and to mass spectroscopy (MS) using atmospheric pressure chemical ionization (APCI) or electrospray ionization (ESI) in combination with collision-activated decomposition (CAD) (HPLC-APCI-CAD-MS or ESI-CAD-MS) for identification of glycosides and HPLC-APCI-CAD-MS for identification of aglycons. The major glycosides are derived from daidzein and most are 8-C-glycosides. 3'-Hydroxypuerarin 4'-O-deoxyhexoside and 3'-methoxy-6''-O-D-xylosylpuerarin were identified as new constituents. MS data were obtained for puerarin-4'-O-D-glucoside, 3'-hydroxypuerarin, puerarin , 3'-methoxypuerarin, 6''-O-D-xylosylpuerarin, daidzin and 3'-methoxydaidzin , which were previously characterized by NMR anal. Isoflavones identified in Puerariae Radix comprise 3'-methoxydaidzein, genistein, daidzein 7-O-Me ether, 3'-methoxydaidzein 7-O-Me ether or

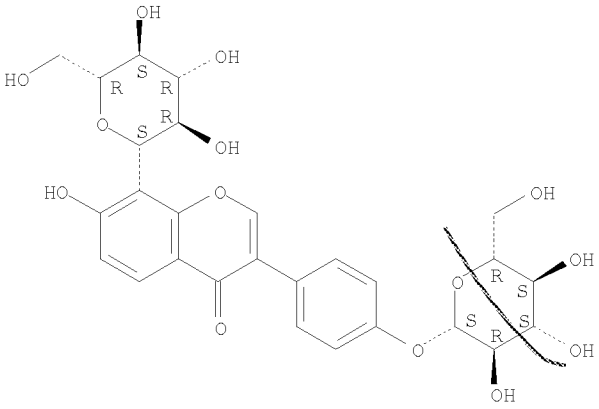
3'-methoxyformononetin and biochanin A, while previous characterization of daidzein and formononetin was substantiated by MS data. The structure of one compound could not be established by MS techniques. The estrogenic activity was mainly located in the aglycon fraction.

IT 117047-08-2P
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(isoflavones of roots of Pueraria lobata)

RN 117047-08-2 CAPLUS

CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1996:167556 CAPLUS

DN 124:352436

OREF 124:65253a,65256a

TI Pueraria lobata. A medicinal plant against alcoholism?

AU Saller, Reinhard; Reichling, Juergen

CS Dep. Inn. Med., Univ. Zuerich, Zurich, CH-8091, Switz.

SO Deutsche Apotheker Zeitung (1996), 136(9), 25-7
CODEN: DAZEA2; ISSN: 0011-9857

PB Deutscher Apotheker Verlag

DT Journal

LA German

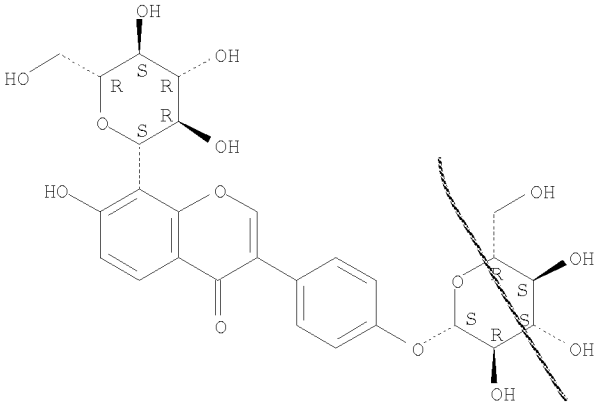
AB The origin, the content, the pharmacol. effects and the inhibition of alc. metabolism of the Chinese drug Pueraria lobata is presented.

IT 117047-08-2
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(crude drugs from Pueraria roots against alcoholism)

RN 117047-08-2 CAPLUS

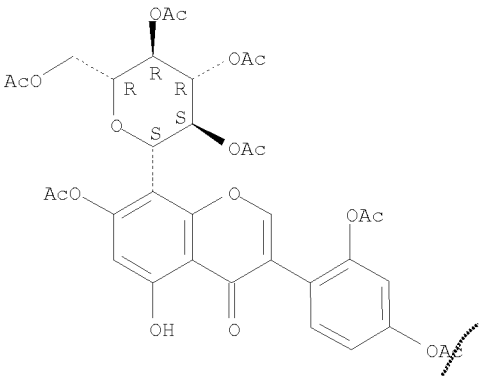
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



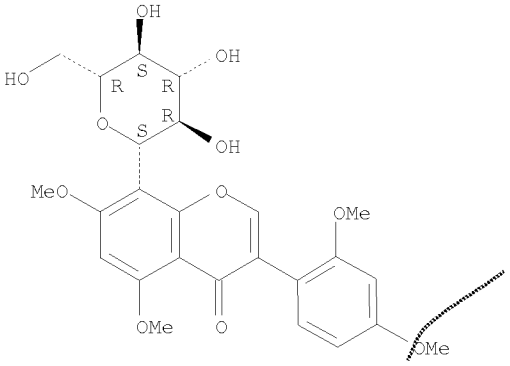
L9 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1996:116266 CAPLUS
DN 124:170642
OREF 124:31555a,31558a
TI A new isoflavone C-glycoside from Cassia siamea
AU Shafiullah, M.; Parveen, M.; Kamil, M.; Ilyas, M.
CS Department Chemistry, Aligarh Muslim University, Aligarh, 202002, India
SO Fitoterapia (1995), 66(5), 439-41
CODEN: FTRPAE; ISSN: 0367-326X
PB Inverni della Beffa SpA
DT Journal
LA English
AB A novel isoflavone glycoside was isolated from the leaves of C. siamea and characterized as 2',4',5,7-tetrahydroxy-8-C-glucosylisoflavone (2'-hydroxygenistein 8-C-glucoside) .
IT 173866-80-3P 173866-81-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of)
RN 173866-80-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[2,4-bis(acetyloxy)phenyl]-5-hydroxy-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



RN 173866-81-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-(2,4-dimethoxyphenyl)-8-β-D-glucopyranosyl-5,7-dimethoxy- (CA INDEX NAME)

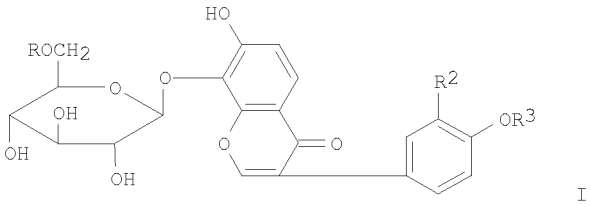
Absolute stereochemistry.



L9 ANSWER 60 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1995:808056 CAPLUS
DN 123:208469
OREF 123:36939a,36942a
TI Skin-lightening cosmetics containing isoflavone glucosides extracted from Pueraria lobata roots
IN Shibuya, Jusuke; Nishizawa, Yoshinori
PA Kao Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

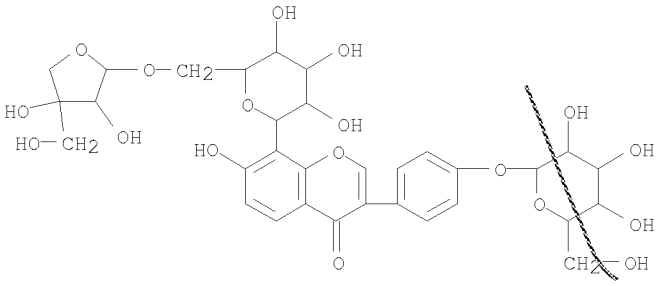
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07157494	A	19950620	JP 1993-305073	19931206
JP 3271840	B2	20020408		
PRAI JP 1993-305073		19931206		

OS MARPAT 123:208469
GI



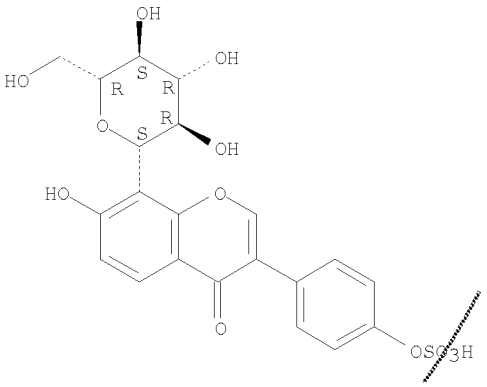
I

AB Skin-lightening cosmetics contain isoflavone glycosides (I) [R1 = apiosyl, glucosyl or H; R2 = H or OH; R3 = H or glucosyl] extracted from P. lobata roots. As an example, a cream contained glycerol monostearate 5.0, polyethylene glycol monostearate 2.0, squalane 8.0, glycerol trioctanoate 8.0, stearyl alc. 5.5, di-Me polysiloxane 0.2, propylene glycol 5.0, di-Na EDTA 0.1, kojic acid 1.5, 6'-O-apiosylpuerarin-4'-O-glucoside 0.2, Na citrate 1.0, preservatives, perfumes, and ion-exchanged water to 100%. The compns. also prevented sunlight-related liver-spot and ephelis.
IT 168035-01-6P
RL: BUU (Biological use, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Skin-lightening cosmetics containing isoflavone glucosides extracted from Pueraria lobata roots)
RN 168035-01-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-(6-O-D-apio-β-D-furanosyl-β-D-glucopyranosyl)-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)



L9 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1995:441848 CAPLUS
DN 122:281356
OREF 122:51003a,51006a
TI Urinary and biliary metabolites of puerarin in rats
AU Yasuda, Takaaki; Kano, Yoshihiro; Saito, Ken-ichi; Ohsawa, Keisuke
CS Tohoku Coll. Pharm., Sendai, 981, Japan
SO Biological & Pharmaceutical Bulletin (1995), 18(2), 300-3
CODEN: BPBLEO; ISSN: 0918-6158
PB Pharmaceutical Society of Japan
DT Journal
LA English
AB Examination was made of the urinary and biliary excretion of the metabolites of puerarin, the major component of the roots of Pueraria lobata Ohwi (Leguminosae) in rats. The urine of rats administered puerarin orally contained puerarin and four major metabolites, daidzein 4',7-di-O-sulfate (M-I), daidzein 7-O-β-D-glucuronide (M-II), daidzein 4'-O-sulfate (M-III), daidzein (M-IV), as determined from spectroscopic and chemical data. Total cumulative amts. of the puerarin and four metabolites excreted in the urine at 48 h following the oral administration of puerarin were approx. 3.6% the doses administered. The bile of rats administered puerarin orally contained puerarin and two major metabolites, which were identified as puerarin 4'-O-sulfate (PB1) and puerarin 7-O-β-D-glucuronide (PB2) on the basis of chemical and spectroscopic data. These exptl. data suggest that C-glycoside puerarin is partially hydrolyzed to aglycon in the body, but mainly excreted in the urine as unchanged puerarin.
IT 163128-95-8 163128-96-9
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)
(puerarin urinary and biliary metabolites)
RN 163128-95-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-[4-(sulfooxy)phenyl]- (CA INDEX NAME)

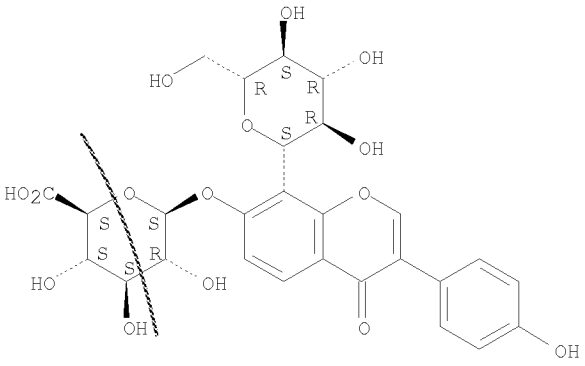
Absolute stereochemistry.



RN 163128-96-9 CAPLUS
CN β-D-Glucopyranosiduronic acid, 8-β-D-glucopyranosyl-3-(4-hydroxyphenyl)-4-oxo-4H-1-benzopyran-7-yl

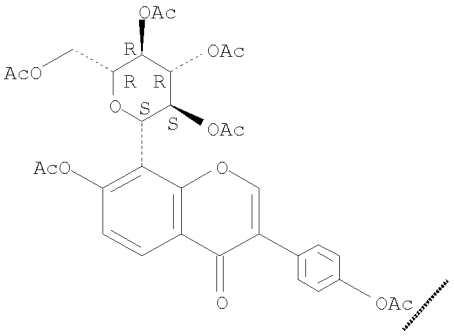
(CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1994:8844 CAPLUS
DN 120:8844
OREF 120:1949a,1952a
TI The rotational isomers of peracetylated C-glycosylflavones
AU Kato, Takeshi; Morita, Yutaka
CS Fac. Pharm. Sci., Josai Univ., Sakado, 350-02, Japan
SO Heterocycles (1993), 35(2), 965-73
CODEN: HTCYAM; ISSN: 0385-5414
DT Journal
LA English
AB In 1H and 13C NMR of peracetylated 8-C- and 6-C-glycosylflavones, the signal doublings were observed due to the restricted rotation of the acetylated glucosyl moiety. The conformations of rotational isomers of hepta-O-acetylvitexin and octa-O-acetylorientin were decided as +sp (major) and -s.c. (minor) for both compds. by NMR (CDCl3) spectral data. The characteristic chemical shift phenomena in NMR of glycosylflavonoid could be applicable to differentiate 8-C-glucoside from 6-C-glucoside.
IT 2889-07-8
RL: PRP (Properties)
(conformation of, NMR in relation to)
RN 2889-07-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

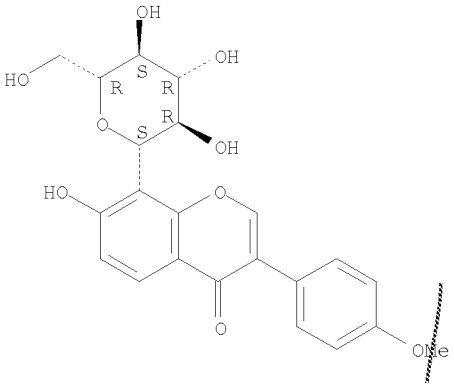
Absolute stereochemistry.



L9 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1993:525006 CAPLUS
DN 119:125006
OREF 119:22302h,22303a
TI The solubility and complex-solubilization of puerarin
AU Wang, Cheng; Liu, Yuling; Su, Shijie

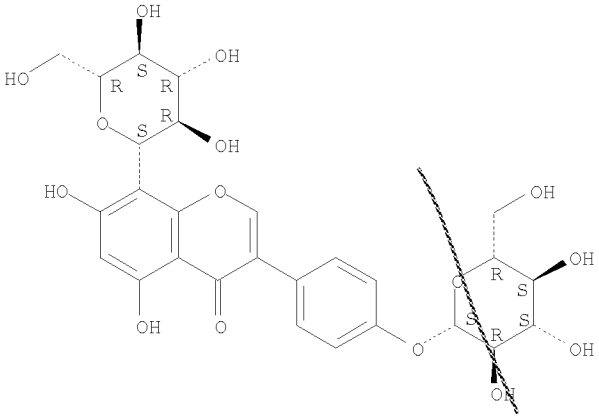
CS Inst. Materia Med., Chin. Acad. Med. Sci., Beijing, 100050, Peop. Rep. China
SO Zhongguo Yaoxue Zazhi (Beijing, China) (1993), 28(5), 294-6
CODEN: ZYZAEU; ISSN: 1001-2494
DT Journal
LA Chinese
AB The solubility of puerarin in aqueous solns. was increased with pH values at pH ≥7.5 and in the presence of methoxypuerarin. Amino acids (e.g. lysine, histidine, and arginine), nicotinamide, and PVP markedly increased the solubility of puerarin, which may be used as solubilizers in the formulation of puerarin injections.
IT 92117-94-7
RL: BIOL (Biological study)
(puerarin solubility in aqueous solution increase by)
RN 92117-94-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



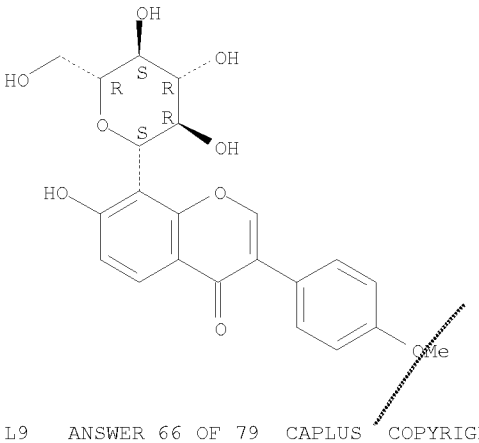
L9 ANSWER 64 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1993:251489 CAPLUS
DN 118:251489
OREF 118:43583a,43586a
TI Leguminous plants . XXXIX. Three new isoflavonoid glycosides from Lupinus luteus and L. polyphyllus + arboreus
AU Watanabe, Kazutaka; Kinjo, Junei; Nohara, Toshihiro
CS Fac. Pharm. Sci., Kumamoto Univ., Kumamoto, 862, Japan
SO Chemical & Pharmaceutical Bulletin (1993), 41(2), 394-6
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English
AB From Lupinus luteus and L. polyphyllus + arboreus hybrid, three new isoflavonoid glycosides were isolated together with six known ones. The new compds. were: 8-C-glucopyranosylgenistein 4'-O-glucopyranoside, 5-O-methylgenistein 4',7-di-O-glucopyranoside, and 2'-hydroxygenistein 4',7-di-O-glucopyranoside. The isoflavonoid distributions in the two species were differed.
IT 147879-67-2
RL: BIOL (Biological study)
(from Lupinus species and hybrids, isolation and structure of)
RN 147879-67-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-5,7-dihydroxy- (CA INDEX NAME)

Absolute stereochemistry.



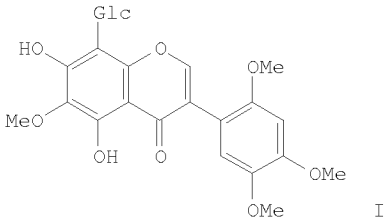
L9 ANSWER 65 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1991:542430 CAPLUS
DN 115:142430
OREF 115:24295a,24298a
TI Determination of 4'-methoxy-puerrarin in puerrarin by reversed phase HPLC
AU Xu, L. X.; Zhang, X. Q.; Liu, A. R.
CS Inst. Materia Med., Chin. Acad. Med. Sci., Beijing, 100050, Peop. Rep. China
SO Yaoxue Xuebao (1991), 26(6), 475-9
CODEN: YHHPAL; ISSN: 0513-4870
DT Journal
LA English
AB A reversed-phase HPLC based on a LiChrosorb Rp-18 column and EtOH-H2O (10:90) mobile phase was developed for determination of 4'-methoxypuerarin (I) in quality control of puerarin. A linear relation was found between the ratio of peak height and the amount of I over the range 0.8-2.5 μg. Recoveries were 93.2-97.5%.
IT 92117-94-7, 4'-Methoxypuerarin
RL: ANT (Analyte); ANST (Analytical study)
(determination of, in puerarin, by HPLC)
RN 92117-94-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

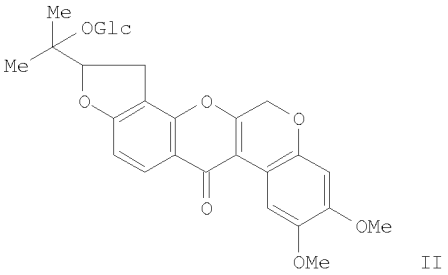


L9 ANSWER 66 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1991:244252 CAPLUS
DN 114:244252
OREF 114:41153a,41156a
TI Dalpaniculin, a C-glycosylisoflavone from Dalbergia paniculata seeds
AU Rao, J. Rajasekhara; Rao, R. Srinivasa
CS Post-Grad. Cent., Sri Venkateswara Univ., Cuddapah, 516 004, India

SO Phytochemistry (1991), 30(2), 715-16
CODEN: PYTCAS; ISSN: 0031-9422
DT Journal
LA English
GI



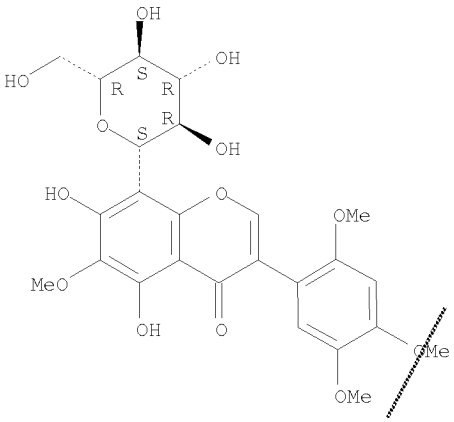
I



II

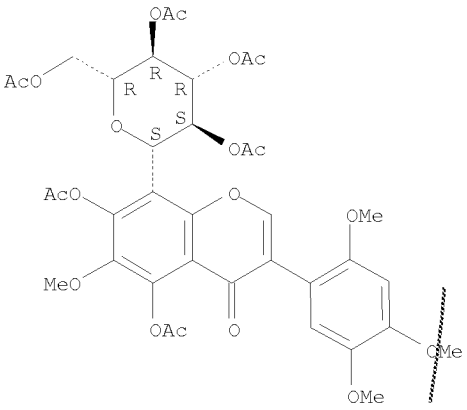
AB Further examination of seeds of D. paniculata has yielded (+)-pinitol, caviunin 7-O-rhamnoglucoside, isocaviunin 7-O-glucoside and two new compds.: a C-glycosylisoflavone, dalpaniculin (I, Glc = β-D-glucopyranosyl), and an O-glycosyldehydrotenoid, dehydrodalpanol O-glucoside (II).
IT 133956-26-0, Dalpaniculin
RL: PROC (Process)
(from Dalbergia paniculata, mol. structure determination of)
RN 133956-26-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5,7-dihydroxy-6-methoxy-3-(2,4,5-trimethoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



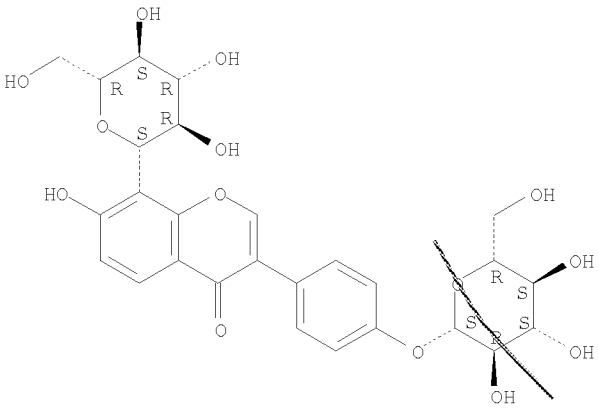
IT 133956-28-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 133956-28-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 5,7-bis(acetyloxy)-6-methoxy-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)-3-(2,4,5-trimethoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1988:576147 CAPLUS
DN 109:176147
OREF 109:29103a,29106a
TI Isolation and high performance liquid chromatography (HPLC) of isoflavonoids from the Pueraria root
AU Ohshima, Yukio; Okuyama, Toru; Takahashi, Kunio; Takizawa, Toshio; Shibata, Shoji
CS Meiji Coll. Pharm., Tokyo, 154, Japan
SO Planta Medica (1988), 54(3), 250-4
CODEN: PLMEAA; ISSN: 0032-0943
DT Journal
LA English
AB From the Chinese drug Gegen (the roots of P. lobata or P. pseudohirsuta), several isoflavonoid compds. were isolated. Besides the known compds. (puerarin, daidzin, daidzein, and formononetin), the presence of pueraria glycosides (PG) 1, 2, 3, and 6 and puerarol in the Pueraria root exts. was revealed by HPLC. The chemical structures of PG-1, 2, 3, and 6 as well as puerarol were supported by spectral data.
IT 117047-08-2
RL: BIOL (Biological study)
(from Pueraria lobata roots)
RN 117047-08-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

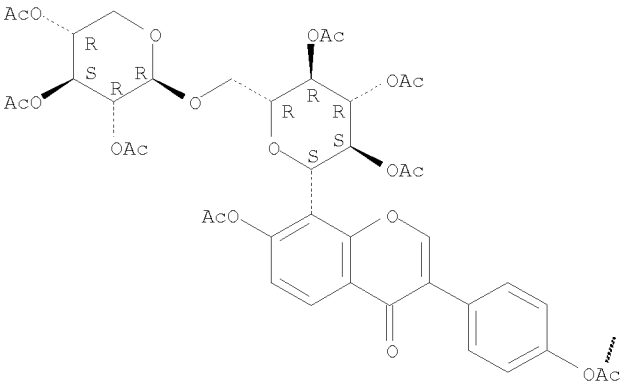
Absolute stereochemistry.



IT 116994-28-6P 117008-18-1P 117047-05-9P

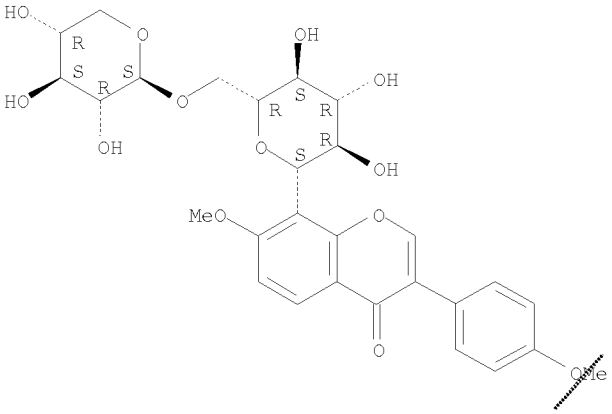
117047-06-0P 117047-08-2DP, acetylated
117047-09-3P 117047-10-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 116994-28-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-[2,3,4-tri-O-acetyl-6-O-(2,3,4-tri-O-acetyl-β-D-xylopyranosyl)-β-D-glucopyranosyl]- (CA INDEX NAME)

Absolute stereochemistry.



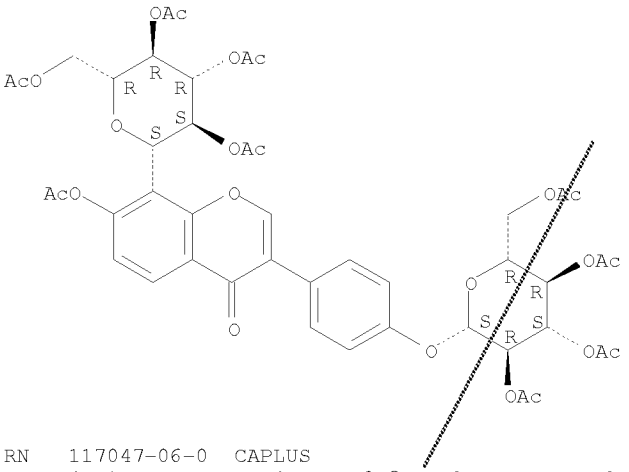
RN 117008-18-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-3-(4-methoxyphenyl)-8-(6-O-β-D-xylopyranosyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



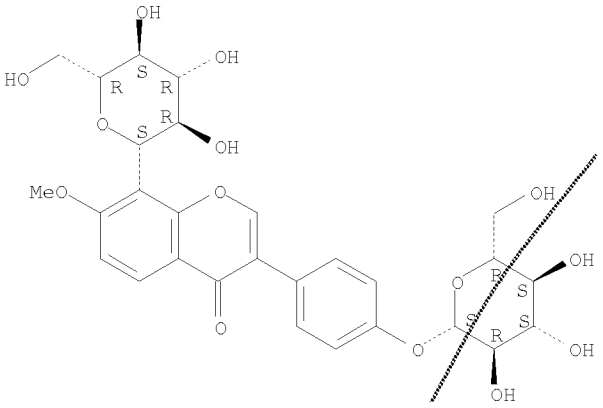
RN 117047-05-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)-3-[4-[(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)oxy]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



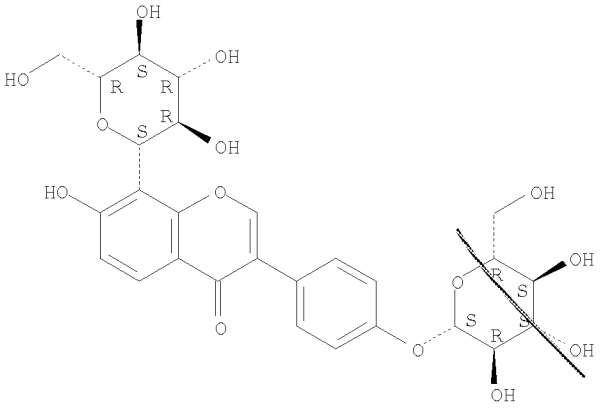
RN 117047-06-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-methoxy- (CA INDEX NAME)

Absolute stereochemistry.



RN 117047-08-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-3-[4-(β-D-glucopyranosyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

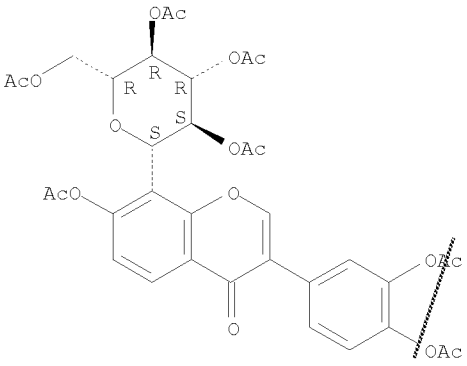
Absolute stereochemistry.



RN 117047-09-3 CAPLUS

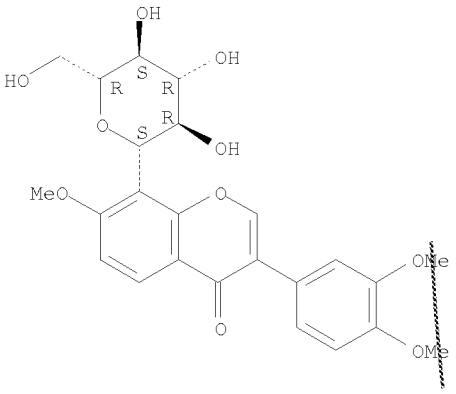
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[3,4-bis(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



RN 117047-10-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-(3,4-dimethoxyphenyl)-8-β-D-glucopyranosyl-7-methoxy- (CA INDEX NAME)

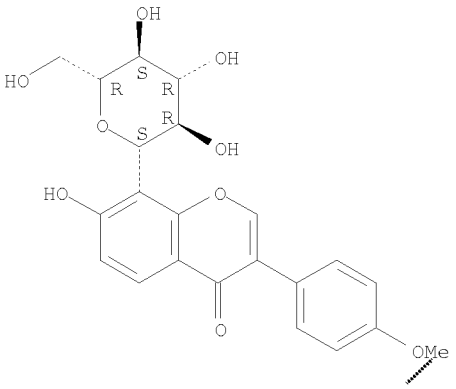
Absolute stereochemistry.



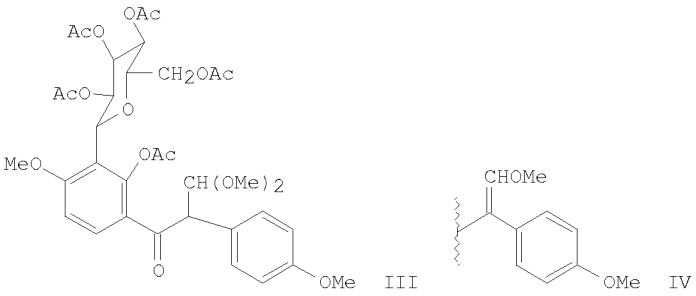
L9 ANSWER 68 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1984:537094 CAPLUS
DN 101:137094
OREF 101:20757a,20760a
TI HPLC determination of isoflavones in Ge Gen (Radix Puerariae) and its tablets
AU Zhang, Yuzhong; Yang, Fan
CS Inst. Chin. Mater. Med., Acad. Tradit. Chin. Med., Peop. Rep. China
SO Yaowu Fenxi Zazhi (1984), 4(2), 67-70
CODEN: YFZADL; ISSN: 0254-1793
DT Journal
LA Chinese
AB Daidzein 4',7-diglucoside [53681-67-7], puerarin [3681-99-0], 4'-methoxypuerarin [92117-94-7], daidzin [552-66-9] and daidzein [486-66-8] in Ge Gen (Puerariae roots) or their tablets were determined by HPLC (Zorbax ODS as stationary phase; MeOH-H2O (32:68) as mobile phase). As an example, 0.1 g powder was extracted with 70% EtOH (10 mL), and 1 mL of the extract was diluted with MeOH with addition of internal standard A 0.6-μL solution was subjected to anal. by HPLC. The retention time was 7.94, 12.97, 14.29, 20.09 and 53.76 min, resp. Contents of various isoflavones in roots of P. lobata from various locations in China ranged 0.0155-2.002, 0.108-5.749, 0.2411-1.908, 0.0175-1.393 and 0.049-0.155%, resp. No pretreatment of crude samples was required. The method was simple and rapid and only a small amount of samples was required in anal.
IT 92117-94-7

RL: ANT (Analyte); ANST (Analytical study)
(determination of, in Pueraria roots and their tablet prepns. by HPLC)
RN 92117-94-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-hydroxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.

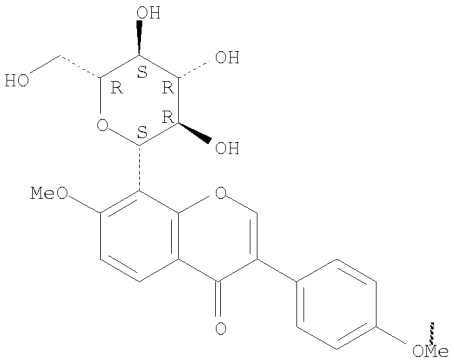


L9 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1979:138107 CAPLUS
DN 90:138107
OREF 90:21913a,21916a
TI C-glycosylflavonoids. II. The synthesis of 7,4'-di-O-methylpuerarin (8-C-β-D-glucopyranosyl-7,4'-dimethoxyisoflavone)
AU Eade, Ronald A.; McDonald, Francis J.; Huu Phung Pham
CS Sch. Chem., Univ. New South Wales, Keningston, Australia
SO Australian Journal of Chemistry (1978), 31(12), 2699-706
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
GI



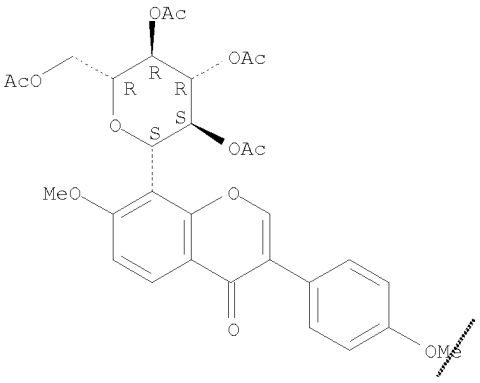
AB The product of reaction of 2'-acetoxy-4,4'-dimethoxy-3'-(tetraacetyl-β-D-glucopyranosyl)chalcone (I) with Tl(NO3)3 in MeOH-CH(OMe)3 solution gave, after acid hydrolysis, a high yield of 7,4'-di-O-methylpuerarin (II). The di-Me acetal (III) and the enol ether (IV) were isolated from the reaction of I with Tl(NO3)3 in MeOH. Both III and IV gave II on reaction with acid or base.
IT 69655-50-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidative rearrangement of, puerarin derivative from)
RN 69655-50-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-7-methoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



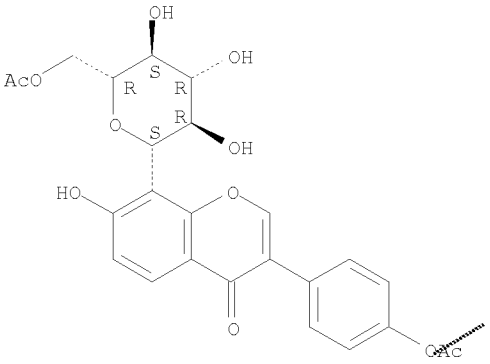
IT 69655-53-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 69655-53-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-3-(4-methoxyphenyl)-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



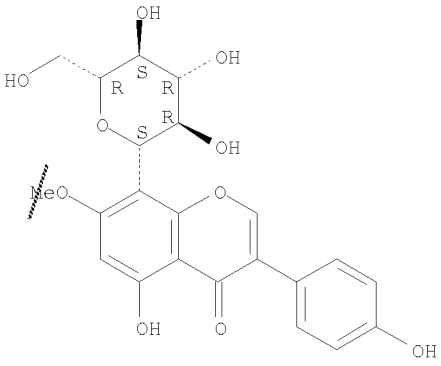
L9 ANSWER 70 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1978:101558 CAPLUS
DN 88:101558
OREF 88:15897a,15900a
TI The C-flavonosides from Sarothamnus scoparius. Isolation of a new compound, 6-O-acetylscoparoside
AU Brum-Bousquet, Michele; Tillequin, Francois; Paris, Rene Raymond
CS Lab. Matiere Med., Fac. Sci. Pharm. Biol., Paris, Fr.
SO Lloydia (1977), 40(6), 591-2
CODEN: LLOYA2; ISSN: 0024-5461
DT Journal
LA French
GI For diagram(s), see printed CA Issue.
AB From S. scoparius leaves genitoside, scoparoside and 5 other flavones, which upon acid and alkaline hydrolysis yielded acyl and O-heteroside scoparoside derivs. One of the acrylic C-glycosylflavones was identified as 6''-O-acetylscoparoside (I).
IT 24562-39-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 24562-39-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-(6-O-acetyl-β-D-glucopyranosyl)-3-[4-(acetyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

Absolute stereochemistry.



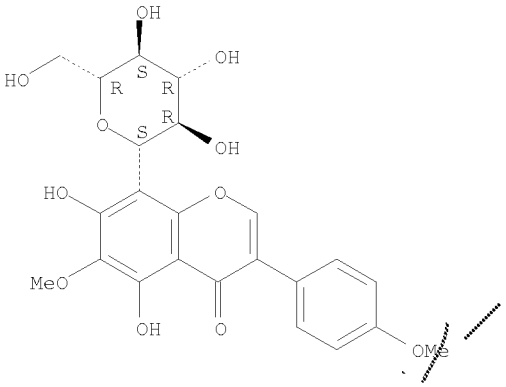
L9 ANSWER 71 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1977:5750 CAPLUS
DN 86:5750
OREF 86:1003a,1006a
TI TLC separation and identification of some flavonoid C-glycosides
AU Chawla, H. M.; Chibber, S. S.
CS Dep. Chem., Univ. Delhi, Delhi, India
SO Chromatographia (1976), 9(8), 408-9
CODEN: CHRGB7; ISSN: 0009-5893
DT Journal
LA English
AB Thin-layer chromatog. on silica gel plates provides a method for the quant. separation and identification of isomeric flavone and isoflavone C-glycosides.
IT 52448-12-1 58930-58-8
RL: ANT (Analyte); ANST (Analytical study)
(chromatog. of)
RN 52448-12-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5-hydroxy-3-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

Absolute stereochemistry.



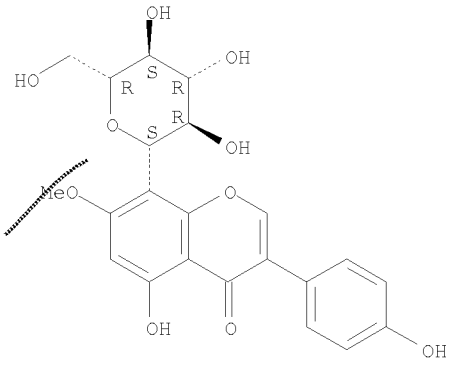
RN 58930-58-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5,7-dihydroxy-6-methoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



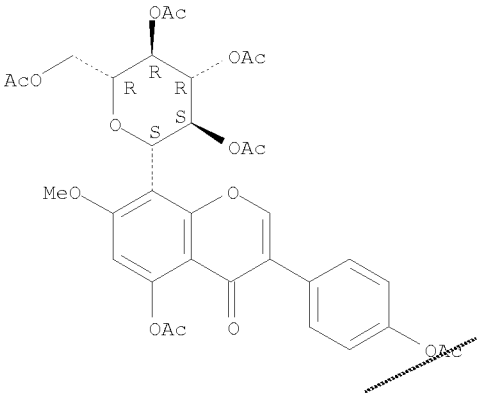
L9 ANSWER 72 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1976:577876 CAPLUS
DN 85:177876
OREF 85:28447a,28450a
TI New isoflavonoid glycosides fom Dalbergia paniculata
AU Parthasarathy, Madhanam R.; Seshadri, Tiruvenkata R.; Varma, Rajender S.
CS Dep. Chem., Univ. Delhi, Delhi, India
SO Phytochemistry (Elsevier) (1976), 15(6), 1025-7
CODEN: PYTCAS; ISSN: 0031-9422
DT Journal
LA English
AB The methanolic extract of the bark of D. paniculata gave 3 isoflavonoid glycosides 8-C-glucopyranosylpruetin and biochanin A and formononetin 7-rutinosides.
IT 52448-12-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(of Dalbergia paniculata, structure of)
RN 52448-12-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5-hydroxy-3-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

Absolute stereochemistry.



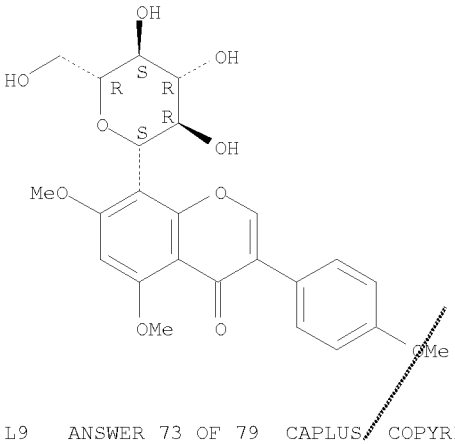
IT 52448-13-2P 60845-26-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 52448-13-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 5-(acetyloxy)-3-[4-(acetyloxy)phenyl]-7-methoxy-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



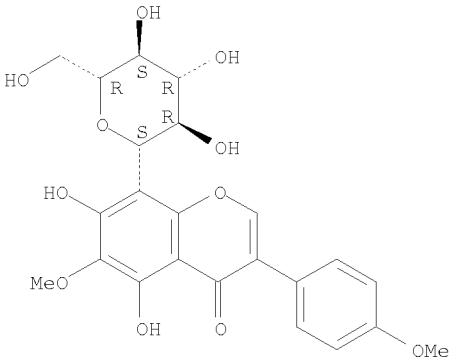
RN 60845-26-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5,7-dimethoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



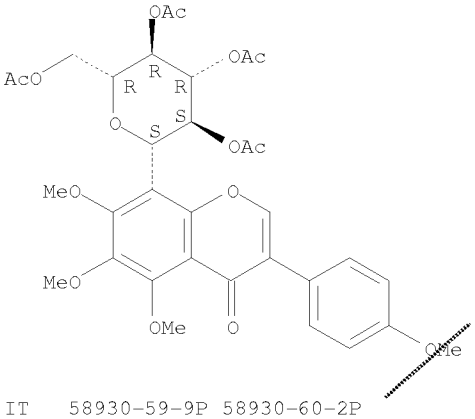
L9 ANSWER 73 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1976:147701 CAPLUS
DN 84:147701
OREF 84:23993a,23996a
TI Volubilinin, a new isoflavone-C-glycoside from Dalbergia volubilis flowers
AU Chawla, H. M.; Chibber, S. S.; Seshadri, T. R.
CS Dep. Chem., Univ. Delhi, Delhi, India
SO Phytochemistry (Elsevier) (1976), 15(1), 235-7
CODEN: PYTCAS; ISSN: 0031-9422
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The alc. extract of the flowers of D. volubilis was concentrated and refluxed in a Soxhlet apparatus with dry Et2O for 24 hr. The Et2O extract yielded biochanin A, whereas the alc. extract contained volubilin and isovolubinin. Volubilinin (I) was crystallized from EtOAc-MeOH as colorless plates m.p. 159-61°. Identification was via ir, uv, NMR, and mass spectroscopy.
IT 58930-58-8
RL: BIOL (Biological study)
(a new isoflavonoid glycoside)
RN 58930-58-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5,7-dihydroxy-6-methoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

Absolute stereochemistry.



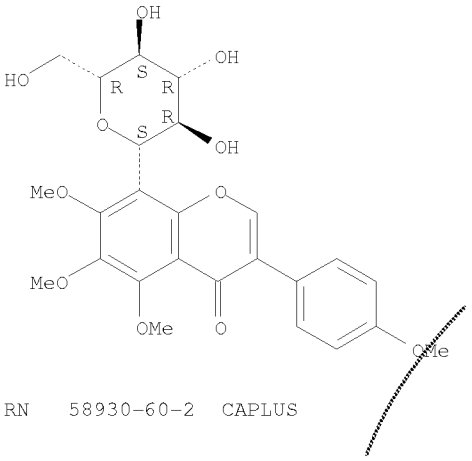
IT 58930-61-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of)
RN 58930-61-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 5,6,7-trimethoxy-3-(4-methoxyphenyl)-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



IT 58930-59-9P 58930-60-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 58930-59-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5,6,7-trimethoxy-3-(4-methoxyphenyl)- (CA INDEX NAME)

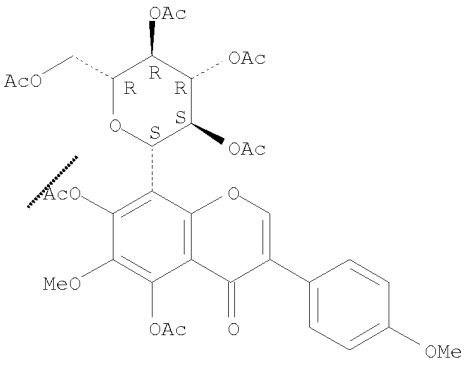
Absolute stereochemistry.



RN 58930-60-2 CAPLUS

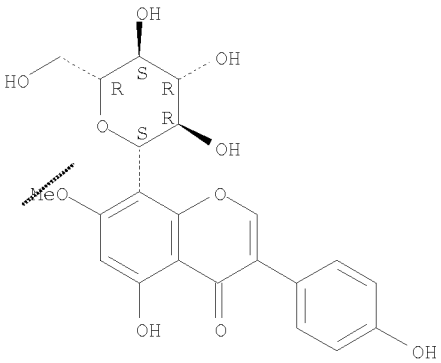
CN 4H-1-Benzopyran-4-one, 5,7-bis(acetyloxy)-6-methoxy-3-(4-methoxyphenyl)-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



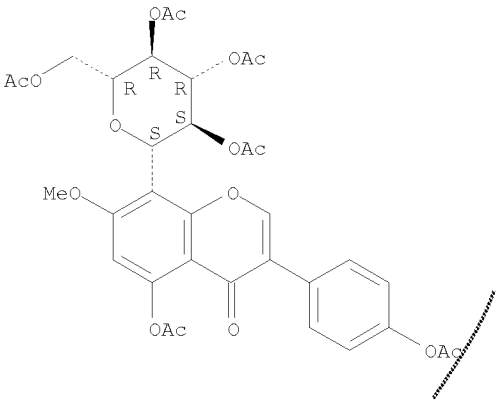
L9 ANSWER 74 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1974:105902 CAPLUS
DN 80:105902
OREF 80:17019a,17022a
TI Minor isoflavonoid glycosides of the stem bark of Dalbergia paniculata. Isolation of a new C-glycoside
AU Parthasarathy, M. R.; Seshadri, T. R.; Varma, R. S.
CS Chem. Dep., Univ. Delhi, Delhi, India
SO Current Science (1974), 43(3), 74-5
CODEN: CUSCAM; ISSN: 0011-3891
DT Journal
LA English
AB The bark of D. paniculata was shown to contain minor glycosides sissotrin (biochanin 7-O-glucoside), formononetin 7-O-glucoside, and 8-C-glucosyl prunetin.
IT 52448-12-1
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of Dalbergia paniculata)
RN 52448-12-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-β-D-glucopyranosyl-5-hydroxy-3-(4-hydroxyphenyl)-7-methoxy- (CA INDEX NAME)

Absolute stereochemistry.



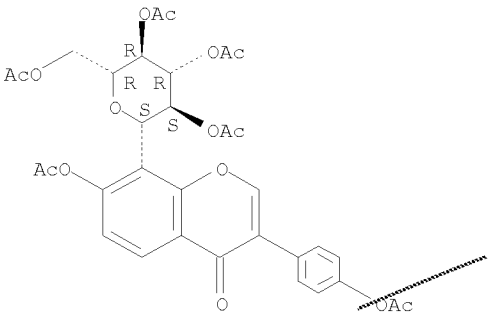
IT 52448-13-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 52448-13-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 5-(acetyloxy)-3-[4-(acetyloxy)phenyl]-7-methoxy-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



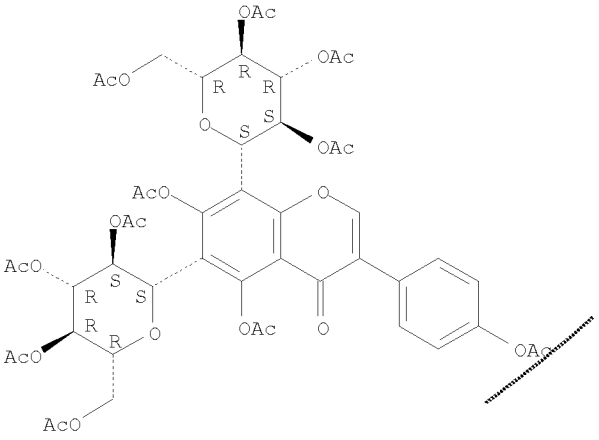
L9 ANSWER 75 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1973:475539 CAPLUS
DN 79:75539
OREF 79:12229a,12232a
TI Method to differentiate isomeric C-glucosyl chromones, isoflavones, and xanthones
AU Holdsworth, David K.
CS Dep. Chem., Univ. Papua and New Guinea, Boroko, Papua New Guinea
SO Phytochemistry (Elsevier) (1973), 12(8), 2011-15
CODEN: PYTCAS; ISSN: 0031-9422
DT Journal
LA English
AB Isomeric 6-C- and 8-C-glucosyl chromones and isoflavones can be readily distinguished by a study of the NMR signals of their acetates. In a similar manner 2-C- and 4-C-glucosylxanthones can be distinguished.
IT 2889-07-8 49584-90-9
RL: PRP (Properties)
(NMR of)
RN 2889-07-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



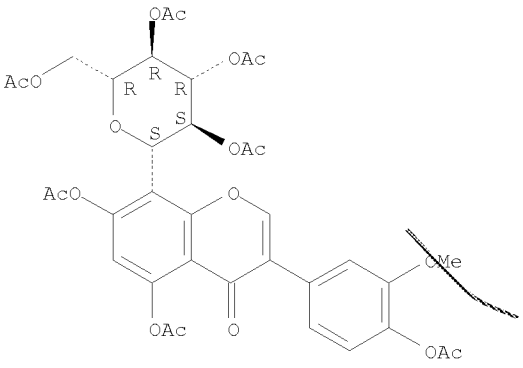
RN 49584-90-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 5,7-bis(acetyloxy)-3-[4-(acetyloxy)phenyl]-6,8-bis(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



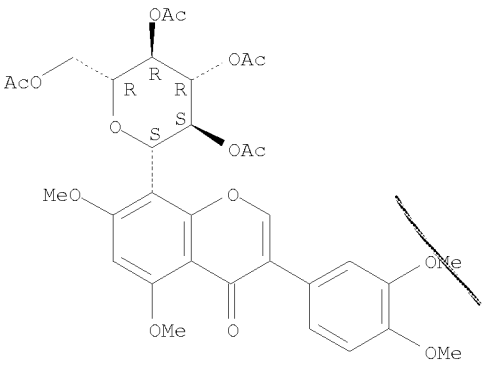
L9 ANSWER 76 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1973:58735 CAPLUS
DN 78:58735
OREF 78:9327a,9330a
TI Isoflavonoid glycosides of Dalbergia paniculata. Constitutions of dalpanitin and dalpatin
AU Adinarayana, D.; Rao, J. Rajasekhara
CS Dep. Chem., Sri Venkateswara Univ., Tirupati, India
SO Tetrahedron (1972), 28(21), 5377-84
CODEN: TETRAB; ISSN: 0040-4020
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Three isoflavonoid glycosides, dalpanitin (I) and dalpatin (II) and dalpanin (III) were isolated from the seeds of D. paniculata. The structures of I and II were assigned on spectral and chemical evidence. III was identical with that extracted from the flowers of D. paniculata (A.; R.; 1972).
IT 40009-86-7P 40009-87-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 40009-86-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 5,7-bis(acetyloxy)-3-[4-(acetyloxy)-3-methoxyphenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



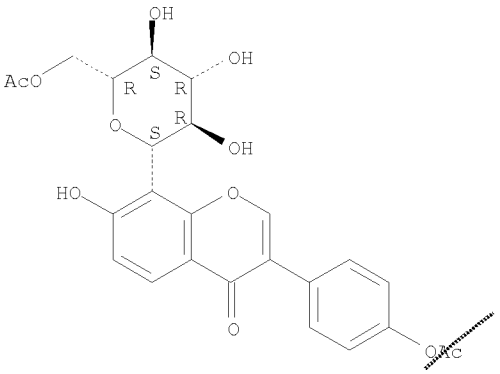
RN 40009-87-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 3-(3,4-dimethoxyphenyl)-5,7-dimethoxy-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 77 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:413322 CAPLUS
DN 71:13322
OREF 71:2459a,2462a
TI Components of the roots of Pueraria tuberosa: isolation of a new isoflavone C-glycoside (di-O-acetylpuerarin)
AU Bhutani, S. P.; Chibber, Shyam S.; Seshadri, Tiruvenkata R.
CS Univ. Delhi, Delhi, India
SO Indian Journal of Chemistry (1969), 7(3), 210-12
CODEN: IJOCAP; ISSN: 0019-5103
DT Journal
LA English
AB The roots of P. tuberosa contain β-sotosterol and stigmasterol in the petroleum ether extract and daidzein in the ether extract In the alc. extract of the roots, besides daidzin and puerarin, a new isoflavone C-glycoside was isolated, whose constitution was established as 4',6''-Di-O-acetylpuerarin.
IT 24562-39-8P
RL: PREP (Preparation)
(from Pueraria tuberosa)
RN 24562-39-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-(6-O-acetyl-β-D-glucopyranosyl)-3-[4-(acetyloxy)phenyl]-7-hydroxy- (CA INDEX NAME)

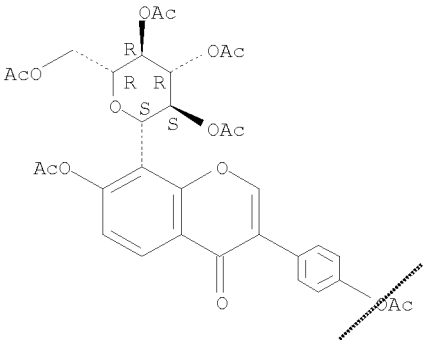
Absolute stereochemistry.



L9 ANSWER 78 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1965:459703 CAPLUS
DN 63:59703
OREF 63:10885h,10886a
TI Nuclear magnetic resonance studies. III. Rotational isomerism of some c-glucosyl flavonoid acetates
AU Eade, R. A.; Hillis, W. E.; Horn, D. H. S.; Simes, J. J. H.
CS Univ. New South Wales, Sydney

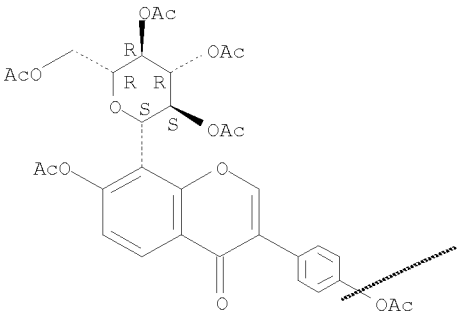
SO Australian Journal of Chemistry (1965), 18, 715-21
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
AB cf. CA 63, 4380f. The proton resonance spectra of certain c-glucosyl flavonoid acetates are temperature dependent. For example, bayin hexaacetate exists in 2 distinct isomeric forms at 0° owing to the steric effect of bulky substituent sugar and aromatic groups. The rate of interconversion of isomers increases with temperature and is rapid at 60°. Differences in orientation and position of the Ac and Ph groups cause the proton diamagnetic shielding consts. of the 2 isomers to be different, leading to their identification.
IT 2889-07-8, Puerarin, hexaacetate
(rotational isomerism in, nuclear magnetic resonance absorption of)
RN 2889-07-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 79 OF 79 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1965:424425 CAPLUS
DN 63:24425
OREF 63:4380f-h
TI Nuclear magnetic resonance spectra and structures of some C-glycosylflavonoids
AU Hillis, W. E.; Horn, D. H. S.
CS Div. Forest Prod., C.S.I.R.O., Melbourne
SO Australian Journal of Chemistry (1965), 18(4), 531-42
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
AB N.M.R. spectra, optical rotations, and other properties of some flavonoid C-glycosides, their acetates, and related model compds. have been used to determine their structures. Proton chemical shift and coupling constant data are given for vitexin, vitexin tetraacetate, vitexin heptaacetate, saponaretin, saponaretin hexaacetate, apigenin apigenin triacetate, bayin, bayin hexaacetate, 7,4'-dimethoxybayin tetraacetate, 4'-methoxy-7-acetoxyflavone, puerarin, puerarin hexaacetate, daidzein diacetate, isohemiphloin, isohemiphloin hexaacetate, isohemiphloin heptaacetate, hemiphloin, hemiphloin hexaacetate, hemiphloin heptaacetate, naringenin, naringenin triacetate, penta-O-acetyl-β-D-glucopyranoside, 2'',3'',4'',6''-tetra-O-acetyl-β-D-glycopyranosylbenzene, and dihydrobenzoin diacetate. It is concluded that vitexin, bayin, puerarin, and isohemiphloin are C-β-D-glycosides with the sugar substituent in the 8-position of the flavoid nucleus. Hemiphloin and saponaretin are 2 of the corresponding 6-substituted compds. In hemiphloin and isohemiphloin the Ph B ring has the equatorial configuration.
IT 2889-07-8, Puerarin, hexaacetate
(NMR and structure of)
RN 2889-07-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-(acetyloxy)-3-[4-(acetyloxy)phenyl]-8-(2,3,4,6-tetra-O-acetyl-β-D-glucopyranosyl)- (CA INDEX NAME)

Absolute stereochemistry.


OAc
R
OAc
AcO
R R
O S
S
OAc
AcO
O
O
OAc